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NOTEBOOK KILLERS?

MAR-APR 1999 VOL.2 NO. 2

H/PC Pros NOTEBOOK KILLERS?

NEC's MobilePro 770

NEC's MobilePro 800

Vadem's Clio

Finally: COLOR-SCREEN Palm-size PCs!

A quick look at HP's Jornada 420. News from Casio, Compaq, Everex and Philips.

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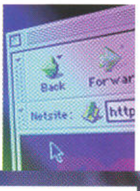

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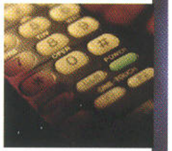

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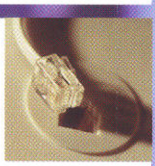

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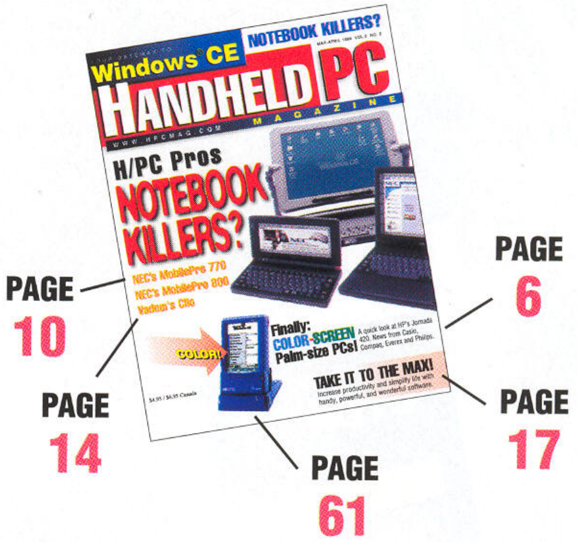

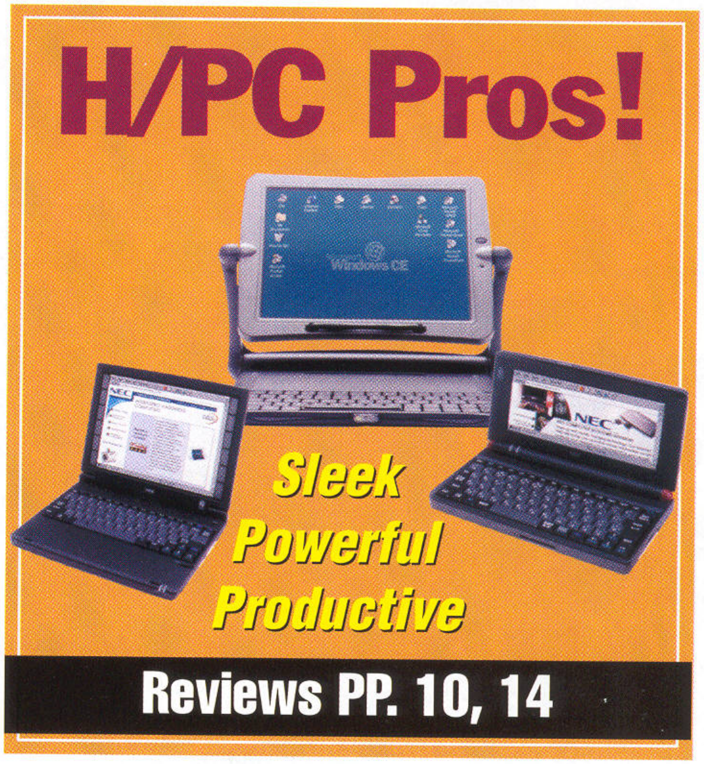

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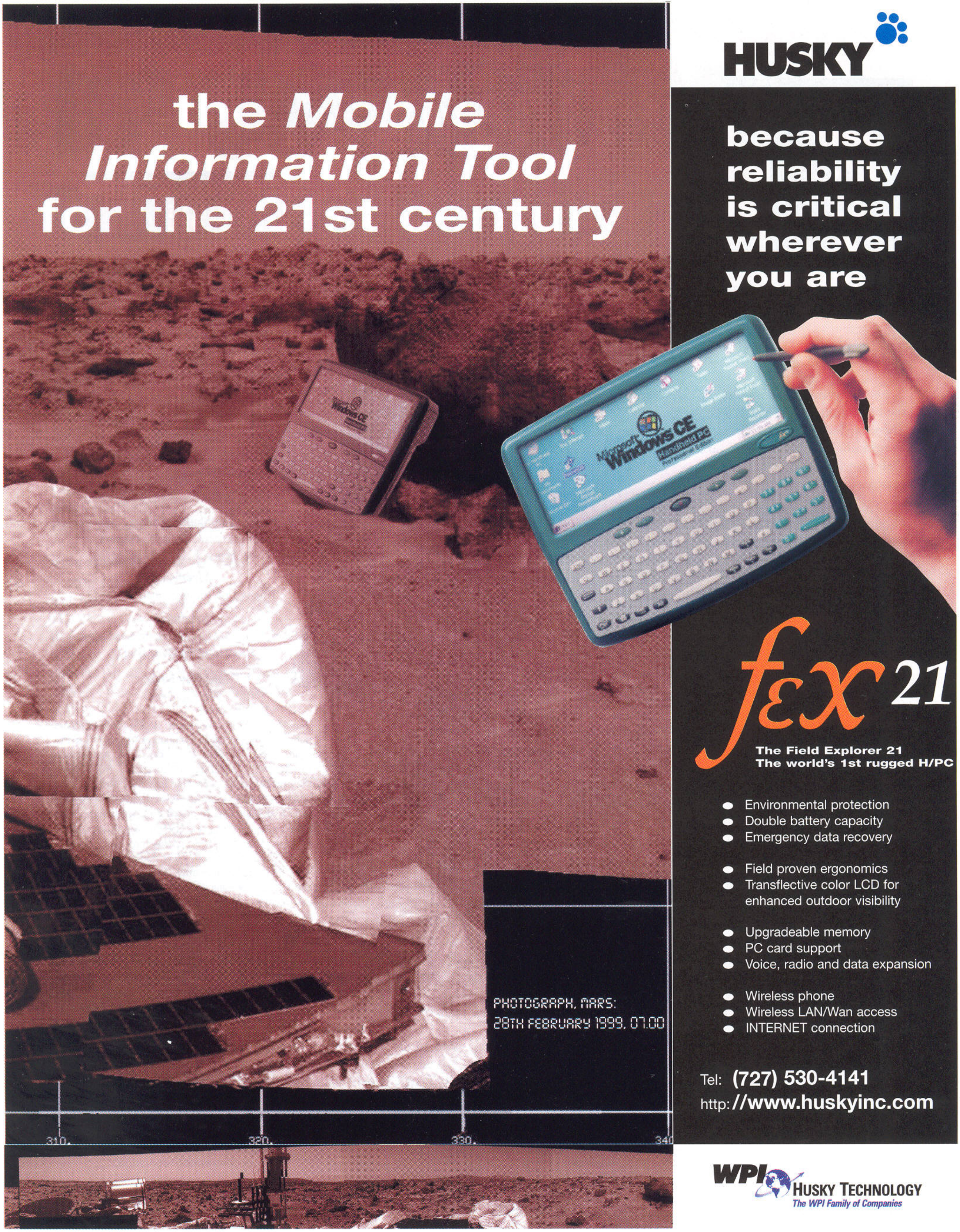
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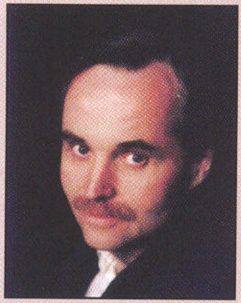

Rich Hall

Finding a Good Assistant

When you hire an assistant, you look for two things: 1) The person should have all the basic skills you need. 2) The person should have the potential to grow with the job. The same holds true for "electronic assistants." Out of the box, any palmtop, PDA or PC Companion should be able to take care of the basics: Calendar, Contacts, Tasks, E-mail, Web browsing and memos. But they should also be able to grow with your needs and experience.

This issue of *Handheld PC Magazine* looks at a new and rather impressive group of electronic assistants - the Handheld PC Pros - the so-called "notebook killers." Chris De Herrera takes a close look at Vadem's new Clio, and likes its unique folding-hinge design that lets you use it three different ways. I review the MobilePro 770 and 800, half-screen and full-screen versions of NEC's new H/PC Pros. Both were a pleasure to use, but especially the full-screen, 64K color MobilePro 800.

Our NewsBYTES section takes a closer look at the new color-screen Palm-size PCs. We take a very quick look at a pre-production version of the new HP Jornada 420 and give you the latest news on the units from CASIO, Compaq, Everex and Philips. We should have some reviews in the next issue of *Handheld PC Magazine*.

Once you find a good assistant, you spend a little time and energy turning them into a great assistant. Most of the rest of this issue is devoted to software products that help customize PC Companions, turning them into great electronic assistants. We take a quick look at over 50 of the best utility and productivity software programs available, including some in-depth reviews. Ed Zabrek looks at bSQUARE's bUSEFUL utility suite. I look at CASIO Soft's new CSI PowerPack; and Craig Peacock tours London with the aid of Microsoft's Pocket Streets.

If you don't want to spend a lot of money on your electronic assistant, Tom Gibson reviews CE Monster, the best Internet site for downloading freeware, shareware, and commercial demos of your favorite Windows CE software.

Finally, I 'hire on' a couple of electronic assistants to help me run the Thaddeus Computing publishing department. In "Practicing what I Preach," I report on my experience using an H/PC and H/PC Pro to write, edit, and manage the production of an issue of *Handheld PC Magazine*.

We hope you'll look at this, and every issue of *Handheld PC Magazine* as a resource to help you find a good electronic assistant, and expand its capabilities to fulfill your growing needs.

Rich Hall

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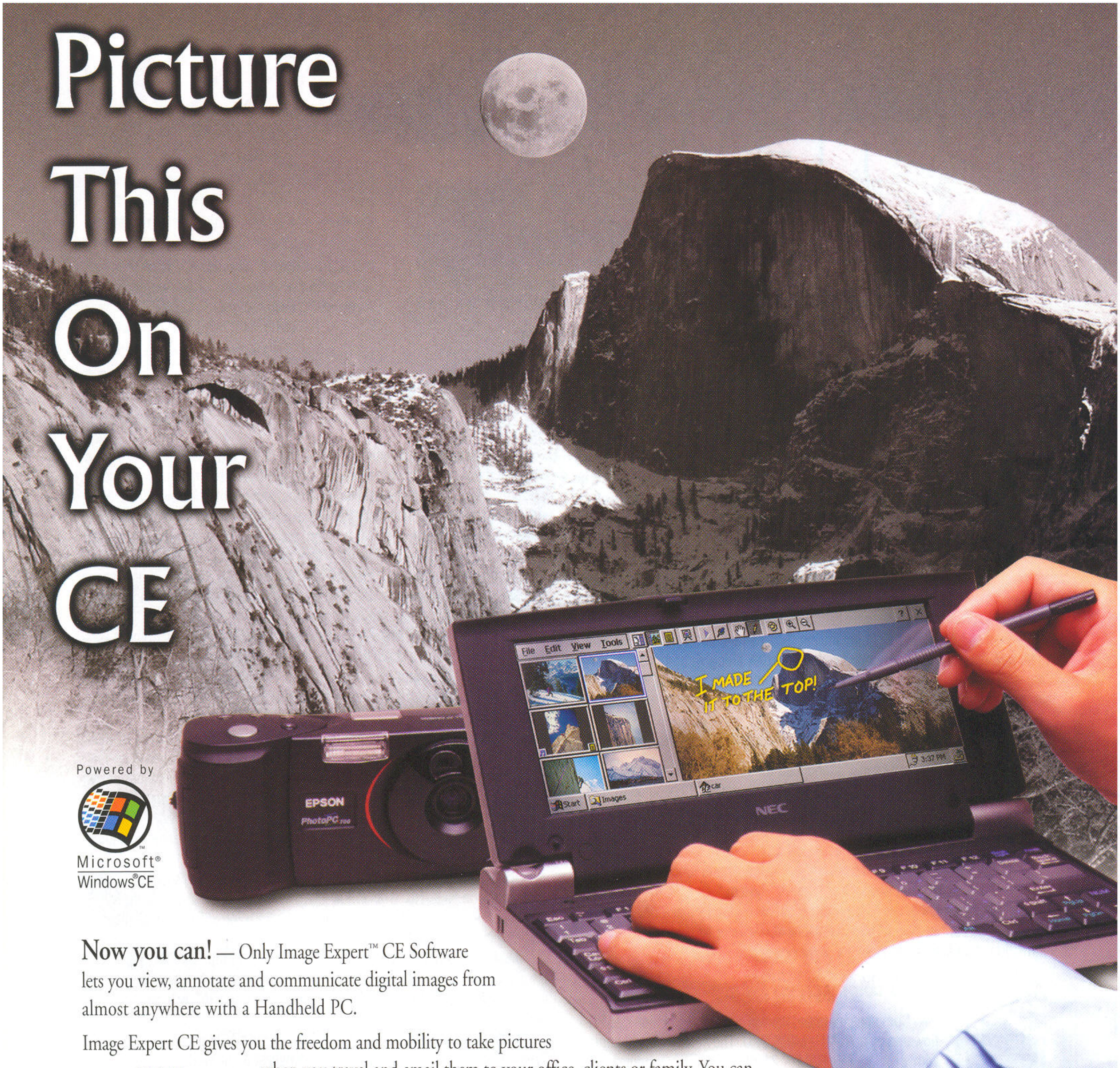
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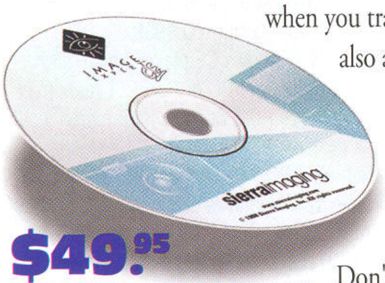
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>>>NEWS BYTES<<<

Cassiopeia color-screen Palm-size PC

As we went to press, Casio announced their new E-100, a color-screen Palm-size PC using the newest release of the Windows CE operating system. Casio is promoting the devices as "the world's smallest pocket 16 MB multimedia player."

The E-100 features an easy-to-read 240 x 320 color LCD screen with 65,536 colors, allowing the users to view movies, web browse and listen to music using various Windows CE software applications. The E-100 features a fast 131MHz NEC microprocessor. Other features include a 16 MB RAM, 16 MB ROM, CompactFlash Card Type II card slot, serial port, stereo headphone jack, microphone/speaker, optional serial cable, and IrDA 1.0 (Web download, upgrade to IrDA 1.1 1Mbps). The E-100 also features a cradle, AC adapter, and Lithium-ion rechargeable battery. A connectivity cradle and AC adapter are included with the E-100, along with bonus applications on CD ROM, Windows CE Services 2.2 and a carrying case. For more information, contact Casio at www.casio-usa.com/hpc/.

Everex Freestyle color-screen Palm-size PCs

Everex announced its new color-screen models of their popular Freestyle Palm-size PC. Scheduled to ship in the second quarter of 1999, new models of the Everex Freestyle will feature a large, front-lit 240 x 320 color display, and "numerous other hardware features designed to maximize the utility and functionality of the Windows CE operating system." One of the rumored changes will be an enhanced rock-arm navigation button to make one-handed use easier. No further details were available as we went to press. For further information, visit the Everex Web site: www.everex.com.

Compaq Aero 2100 color-screen Palm-size PC

Compaq announced its new color-screen Palm-size PC powered by a 70 MHz MIPS CPU. The Aero 2100 will come with 8 or 16 MB RAM - 24 MB expansion modules are available as options. The Japanese version will have 20 MB of ROM; 8 MB in U.S. and all other locations. The 4" diagonal 240x320 touchscreen is a 256-color high resolution Thin Film Transistor (TFT) liquid crystal display. On/off and application buttons are on the front of the unit. Action and exit buttons on the side. The Aero has an IrDA infrared port, CompactFlash slot, serial port, speaker, microphone and audio jack. The user is notified of appointments and other events by an audible alarm, LED signal, and an internal vibration mechanism. Cradle with DC Jack and serial port connection to PC comes standard with product.

Options include: Deluxe cradle - lets users charge an extra battery in cradle; Slipcase; Auto-Sync cable; 3-pack of Stylus; Auto Power adapter.

Software bundled with the package includes: Audible Content Player - a proprietary audio compression technology; Compaq Asset Management - software, allows IT managers to verify the owner of the device, review memory capacity and availability, and access serial and model numbers; Syracuse Language, Inc. - dictionary tools, including English-to-Japanese and English-to-Spanish; VCA, Inc.; Expense Tracker - helps users keep track of personal expenses and those that should be charged back to the company; Applian

CES Show Roundup

By Chris De Herrera

The Consumer Electronics Show (CES) is the big consumer electronics event of the year. It showcases a wide variety of devices, including car stereo systems, TVs, VCRs, cameras, clocks, DVDs, and the like. A portion of CES is devoted to computers, and a portion of that portion is devoted to portable computers. Still, for the second year running, many PC Companion manufacturers have chosen CES to show off some of their new hardware. There were no earth-shattering announcements. Instead, the Windows CE portion of the show focused on announcements and demonstrations of products that had already been announced or discussed in the press.

Auctor's Color P/PC — Auctor demonstrated their Color Chinese version Palm-size PC. It's about the same size as a regular Ps/PC with a 320x240, 256 color display, except it's a little thicker. The Chinese version of Windows CE software is 2.11 and it includes Pocket Internet Explorer which is not on the current U.S. versions.

Everex Color P/PC — Everex showed me an early prototype of their color Palm-size PC. It has a MIPS processor, is a little larger than their current Ps/PC, and is powered by a rechargeable lithium battery. It also includes arrow and action rocker switches for right or left handed users. Hewlett-Packard, Compaq, and Casio will be manufacturing color-screen Palm-size PCs (see announcement, this page). Look for them to be in the retail channel sometime this spring.

NEC MobilePro 770 — NEC announced its new 770 MobilPro at CES (see review on page 10). This follow-on to the NEC 750C has a 133mhz MIPS processor with 32 MB of RAM standard and a 640x240 x65,000 color display. It is now available at retailers near you.

Motorola Flex Pager — The CompactFlash Motorola Flex pager was on display. It is the first low-power CompactFlash card to have the antenna built into the card. HP's new Jornada 420 Palm-size PC will support this device.

IBM MicroDrive — IBM demonstrated their MicroDrive 170 and 340 Type II CompactFlash hard drives — the smallest in the world. They are compatible with the H/PC Pros and will be available during 2Q 1999.

Audible — Audible showed their new Windows CE player which allows users to download a book and listen to it on their H/PC or Ps/PC. Everex may bundle the player with its new E-100 Palm-size PC. For more information visit www.audible.com.

Also shown at CES was the Clarion Auto PC. The Auto PC is the latest of the Windows CE PC Companions. It was also displayed at last year's CES, but introduction was delayed until December 1998. Auto PC offers driving information (directions, weather and a radio/CD player) right in the dash of your car. Look for it at car stereo stores near you.

Technologies, Inc. CoolCalc - provides users with scientific, financial and business calculators.

For more information, contact your local Compaq dealer or visit their Web site at www.compaq.com/products/handhelds/.

HP Jornada 420 Palm-size PC

Hewlett-Packard Company has announced its Jornada 420 color-screen Palm-size PC. The 420 is powered by a 100 MHz SH7709a CPU and uses the new Windows CE 2.11 operating system. It comes with 8 MB ROM and 8 MB RAM (upgradeable) It has a 240x320 pixel 256 color touchscreen display with a transparent flip cover for protection.

The Jornada 420 will have the standard Palm-size PC built-in applications. It will also support FLEX CompactFlash paging and modem cards (optional) allowing the users to send and download short message service (SMS) messages with integrated infrared and Trio PhoneManager software.

The Jornada 420 will be priced at $519. According to HP, the Jornada 420 will be available to end-users, but will target corporate users with emphasis on integration with Back Office systems. HP is also targeting vertical solutions, including medical professionals. For more information, visit HP's Jornada Web site: www.hp.com/jornada/ (see review, page 61).

LEO Freestyle: Chinese language Palm-size PC

LEO systems of Taiwan, the developers of the hardware for the Everex Freestyle, have released a Chinese-language version of the Palm-size PC called the LEO Freestyle. The hardware is identical to the Everex version, but the LEO Freestyle uses the Windows CE 2.11 operating system and comes with a choice of the Simplified Chinese or Traditional Chinese character sets. The LEO Freestyle will be marketed in China and various overseas Chinese markets, including Singapore, Malaysia, Taiwan, and Hong Kong. The LEO Freestyle integrates a number of features designed to meet the specific needs of Chinese consumers and professionals. These include:

- Easy Chinese character input using a choice of Chinese character recognition, Pinyin Romanization, and ChangJie methods
- A Chinese Lunar Year Calendar
- Chinese language versions of all Windows CE Pocket Outlook applications
- A Chinese/English Dictionary with a total number of 100,000 entries

LEO Freestyle users will be able to input Chinese characters or English text using handwriting recognition or Soft keyboard. The LEO Freestyle will use the Windows CE 2.11 operation system and come with a complete set of the Palm-size PC Pocket applications and utilities, including Calendar, Contacts, Tasks, Inbox, Note Taker, World Clock, Calculator, Solitaire, Mobile Channels and Voice Recorder. New to the LEO will be a Palm-size PC version of Pocket Internet Explorer.

The LEO Freestyle Palm-size PC will be available in the Associate, Manager, and Executive models (see Everex Freestyle descriptions on page 59) and will be sold through authorized LEO distributors and dealers in China, Taiwan, Hong Kong, Singapore, Malaysia, and other countries with Chinese-speaking populations. Retail prices will begin at under US $350 for the Associate model. For more information contact LEO Systems, Inc. Taiwan phone: (02)-2218-2866; China phone: 10-6262-8874; Hong Kong, SE Asia & other countries phone: (886)-(2)-2715-3670. Website: www.leosys.com.

Philips plans color-screen Palm-size PC, drops H/PC

Philips Mobile Computing Group will introduce a color-screen version of its popular Nino Palm-size PC. It is also rumored that Philips will release a new low-end model of the Nino, to be priced under $300. For further information, visit Philips' Nino Web site at nino.philips.com/index.html. Philips has announced that it will discontinue the Velo 500 and not offer an upgrade to H/PC Pro.

Windows CE Services 2.2

Handheld PC Pros and the newer color-screen Palm-size PCs will be shipping with the latest version of Windows CE Services. This upgrade to Windows CE Services is for use with PC Companions using the Windows CE operating system, version 2.0, 2.01 and 2.11. This upgrade does not support devices using the original Windows CE operating system, version 1.0.

Users of Windows CE 2.0 PC Companions should check their manufacturer's Web site for a free downloadable copy of Windows CE Services 2.2. If you can't find one there, it can be downloaded at one of the following Web sites:

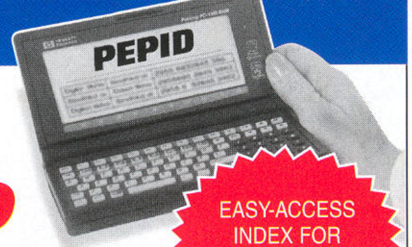
MSN's Computing Central Windows CE site:
http://computing central.msn.com/topics/windowsce/welcome.asp

CE Monster Updates Page: www.cemonster.com

Microsoft.com's Windows CE site. You can't actually download Windows CE Services here, but the site has links to H/PC and Palm-size PC manufacturer sites where you can download it:
www.microsoft.com/windowsce/pccompan ions/wceserv.asp

Upgrading to Windows CE 2.11 and H/PC Pro apps

Most of the manufacturers of Windows CE 2.0 Handheld PCs are supposed to make upgrade chips available to users of these devices. However, not all have announced when the upgrade will be available. As we went to press, only the fol-



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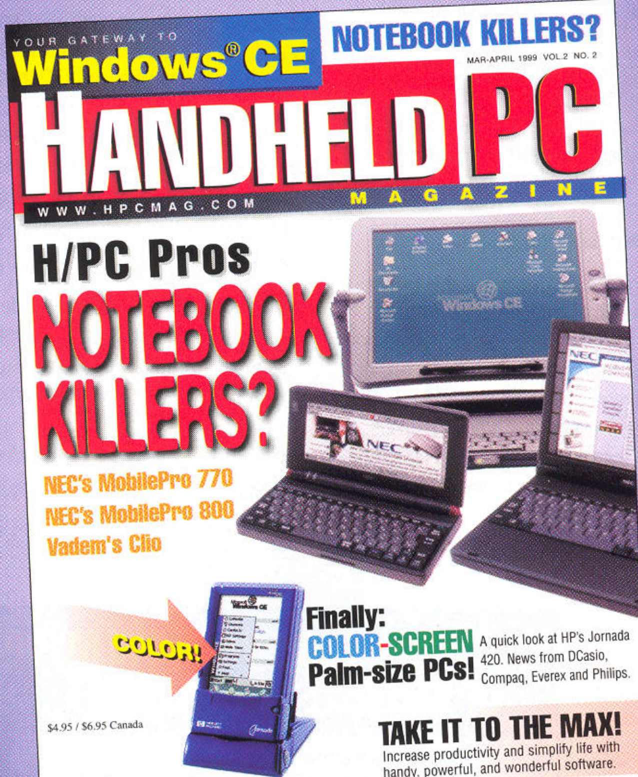

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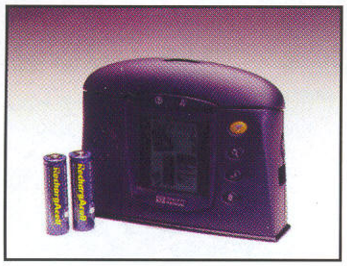

Hewlett-Packard's CapShare 910 portable quick scanner.

lowing OEMs had announced upgrade plans and the H/PCs they apply to.

NEC MobilePro 750C
LG Electronics Phenom Express
Hitachi HW-200EC H/PC
Compaq C-Series

There has been no formal announcement from any of the others. The upgrade will be made available in the form of a user-installable ROM card that will replace an existing one in the various H/PCs. The card will cost from $100 to $150. For more information on availability, see the OEM Web sites listed in the At A Glance table beginning on page 49. Microsoft's Web updates a list of manufacturers providing upgrades. Visit them at www.microsoft.com/windows ce/downloads/pccompanions/hpcupgrade.asp.

Acer to release devices based on Windows CE

Acer computer company will be developing computer devices based on the Windows CE operating system, including mobile and handheld devices, set-top boxes, and desktop machines.

HP CapShare 910 communicates with PC Companions

Hewlett-Packard Company recently announced upgrade software to their new CapShare 910 information appliance, allowing the device to communicate with any of HP's Windows CE 2.0 or 2.11 devices, including the HP 360LX, 620/660LX, the Jornada 800 Handheld PC Pro, and the new Jornada 420 Palm-size PC. HP has not tested it with other PC Companions, but it should work with them also. HP CapShare 910 is a portable scanning device that can be used to capture documents and graphics, view them for accuracy on CapShare's built-in LCD display, and transfer them via IrDA port to a printer or portable device.

The user holds down the capture button, slides CapShare across the document, and releases the button. Another button transfers the captured image (in .pdf or .tif format) to a computer or printer with a standard IrDA infrared port. From a computer, you can attach it to an e-mail and send it anywhere. You can also import the image into a desktop PC's OCR program and convert it to text.

CapShare ships with a rechargeable NiMH battery that will allow the capture and transfer of about 100 pages before recharging. The device has storage memory for about 50 letter-sized pages. HP CapShare 910 will retail for about $699. Those who purchase CapShare 910 prior to March 1, 1999 can receive a free downloadable upgrade at CapShare's Web site, at www.capshare.hp.com. Additional information about CapShare is also available at the Web site.

Third-party software for HP Jornada 820 H/PC Pro

Hewlett-Packard Company's new Jornada 820 Handheld PC Pro is the first Windows CE device to use a StrongARM processor. The CPU is very fast (190 MHz), but the new processor type was just supported by Windows CE 2.11. Most of the H/PC software available from third-party developers was compiled for the MIPS and SH3 processors. Applications must be re-compiled for the StrongARM processor. Although many developers, including ART, bSQUARE, CASIO Soft and Ruksun, have done this, but many more have not. Users of the Jornada 820 should confirm that the software they are buying is compatible with their device.

Pretec introduces high-capacity CompactFlash cards

Pretec Electronics Corp. (www.pretec.com) has announced the launch of a line of higher capacity CompactFlash Type II (CF+) storage cards. The cards will come in 80, 100, 128, 160, 192, 256, and 320 megabyte capacities. The lower capacity cards are available now. You'll have to wait until sometime in the 2nd half of 1999 for a 320 MB CF+ card. Pretec's CF+ card is compliant with CompactFlash Type II specifications and based on 128Mbit/256Mbit 'AND' chips from Hitachi, or NAND chips from Toshiba and Samsung, together with Pretec's proprietary controller and packaging technology.

Infowave Office Enabler enhances Windows CE support

Infowave Software Inc. (www.infowave.com.) recently announced the release of version 2.6 of Infowave Office Enabler, which enables wireless networking with Microsoft Exchange servers. The new version will have tighter integration with Microsoft Exchange and enhanced features for Windows CE devices, including:

NTLM Authentication on Windows CE: Standard NT authentication for Windows CE clients provides the same level of network security that is available if the person was logging on from their desktop PC at the office.

Attachment Filtering: Allows Windows CE users to choose how and when to download messages with attachments such as Word, Excel or PowerPoint files.

NS Basic/CE Jornada Beta Now Shipping!

NS Basic Corporation (www.nsbasic.com) has announced the release of the beta version of NS Basic/CE Jornada 1.10. HP's new Jornada 820 uses a StrongARM processor and this new release of NS Basic/CE now supports that processor. Registered users of NS Basic/CE can get the software by sending an e-mail to beta@nsbasic.com. NS Basic Corp. will send back the files. The Jornada version of NS Basic/CE will be available at no charge to all licenced NS Basic/CE users.

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Make Room
from

MobilePro 800 and 770 offer large or sma

MobilePro 770 Handheld PC Professional

By Rich Hall

They're stylish and thin. It's very easy to type on their almost full-size keyboards. And one of them has a very large screen. I'm talking about NEC's new "notebook killers" – the MobilePro 770 and MobilePro 800 Handheld PC Pros.

NEC was one of the first manufacturers to buy into "bigger is better" with their Windows CE 2.0 Handheld PC, the MobilePro 750c (see my review of that product, beginning on page 6 of the July/August 1998 issue). The idea was that the keyboards on the smaller Handheld PCs were just too small to type on easily. Users, especially corporate users, were accustomed to notebook computers and wanted touch-typeable keyboards and color screens. NEC must have made the right decision with the 750c. All of the new H/PC Pros announced so far have large keyboards and color screens.

The same, but different

The NEC MobilePro 770 and 800 have a lot of common features, and a couple of very different characteristics. Both devices are built around a fast 131MHz MIPS processor – applications open and close quickly. Both devices come with 24 MB of upgradeable ROM and 32 MB of RAM. The 800 can be further upgraded to 48 MB RAM. Both devices have a Type II PC Card slot, a Type II CompactFlash+ slot, a VGA-out port, serial port, IrDA port and a jack for the built-in 56 kbps modem. The 800 has an additional USB port. Both devices come with a built-in microphone for recording voice memos, and a combo earphone/ microphone jack. At 2.56 lbs, the MobilePro 800 is fl of a pound heavier than the 770.

The units have some significant hardware differences. Although both units are capable of displaying 65K of colors, the MobilePro 800 is the larger unit, with a full-size 9.4" diagonal screen capable of displaying 800x600 or 640x480 pixels. If you are going to use your H/PC to browse the Web, this is a wonderful screen to do it on. The MobilePro 770's screen is a smaller ½ VGA 8.1" diagonal color screen displaying 640x240 pixels.

Both units are equipped with built-in rechargeable backup batteries. The main batteries are rechargeable lithium-ion battery packs. The MobilePro 800 gets about 8 hours of use on a fully-charged battery. The 770, with the smaller screen, gets about 10. One nice 770 option is a battery adapter tray that lets you replace the rechargeable battery pack with four AA batteries. They won't power the 770 very long so you won't want to do this on a regular basis. But it's very handy if you run out of power in out-of-the-way places. Unfortunately, this does not work with the 800.

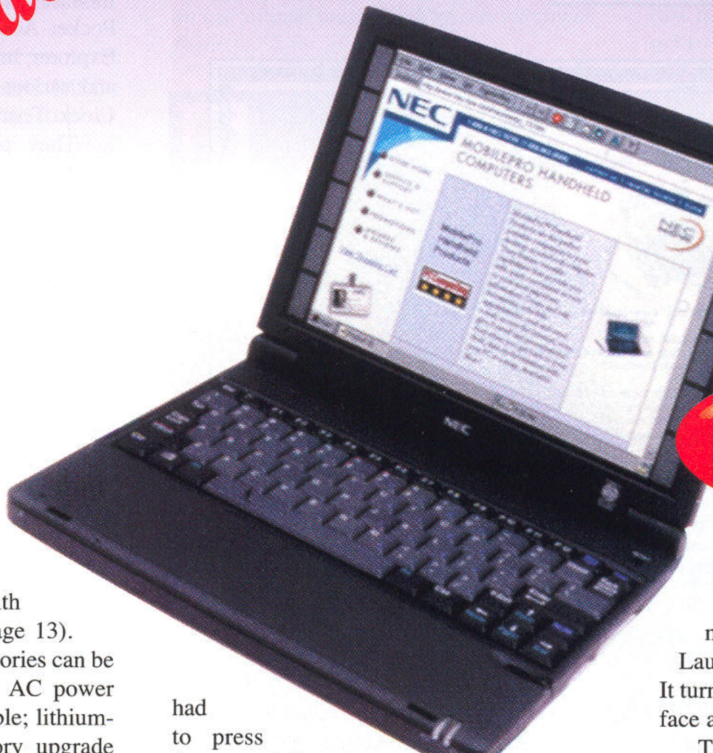
Both MobilePros come with the following accessories: AC power adapter, serial connectivity cable, RJ-11 phone cable, VGA-out cable, manuals, a CD ROM with Windows CE Services (for synchronization

Rich Hall (rich@thaddeus.com) has written extensively about mobile computing for the last 12 years. He is the current editor of and writer for *Handheld PC Magazine*. He is past editor and writer for *The HP Palmtop Paper*, the *HP OmniGo World*, the *NEC UltraLite Connection*, and *The HP Portable Paper*.

for the Pros

NEC

l-screen portability in a Handheld PC Pro



MobilePro 800 Handheld PC Professional

and connectivity with a desktop PC) and a CD ROM with bonus software (see sidebar, page 13). In addition, the following accessories can be purchased for the Mobile Pro: AC power adapter; PC synchronization cable; lithium-ion battery pack; RAM memory upgrade module; stylus pen pack; carrying case; docking cradle.

Both MobilePros have the Windows CE 2.11 operating system, the same set of Pocket applications and utilities, and the same set of add-on programs (see the sidebar on page 13 for my comments).

A hands-on look

As I mentioned, performance was snappy on both units. I opened and closed applications, loaded large and small documents, and only once noticed a slowdown when I was loading a large database into Pocket Access.

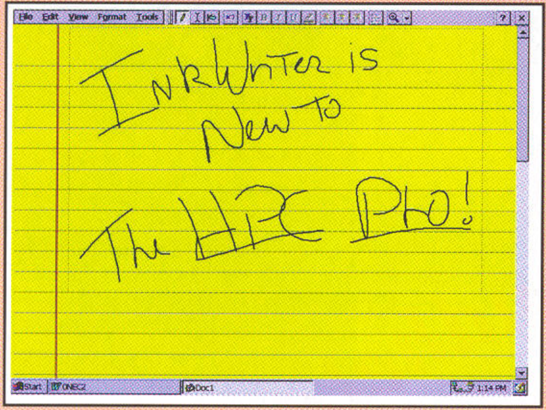
The screen on the 770 is a little easier to see, but both are quite readable. Backlighting powers off on its own, and comes back on automatically when you start typing or tap the screen. The touchscreen on the 770 seemed a little more sensitive than the 800. I had to press down a little harder on the 800 and re-tap occasionally, until I got used to it.

The Control Panel comes with a special MobilePro Settings application that lets you change a number of the configurations. For one thing, you can reset the unit to display 256 colors instead of 65K. I did this and saw no appreciable difference with the applications. I did see a difference with some graphics on the Web. The Settings application also lets you set the VGA-out port to display a 800x600 or 640x480 screen and to display the screen on both the MobilePro and the VGA monitor. You can also change the keyboard layout from U.S. to international English; change the speed of the IrDA port from 115.2 kbps to 4Mbps, and set up the built-in 56.2 modem to operate in the U.S., U.K, Japan, Australia, Canada, France, Germany, or Italy. Finally, there is an option (on the 800 only) to configure the five Quick-Launch keys. Search as I might, I could not find the Quick Launch keys and had to call tech support. It turned out that they were staring me in the face all the time.

The Quick Launch keys are not really keys at all. They are located on the right side of the 800's touchscreen. You can configure the 800 to launch any five applications you like and simple tap on the permanent icons (1 through 5) on the right side of the screen. The 800 has five other "keys" on the left side of the screen that let you access your World Clock, MobilePro Settings, Power Properties (to check your batteries), Systems Properties (to check memory and other systems stats.), and your Volume & Sound properties.

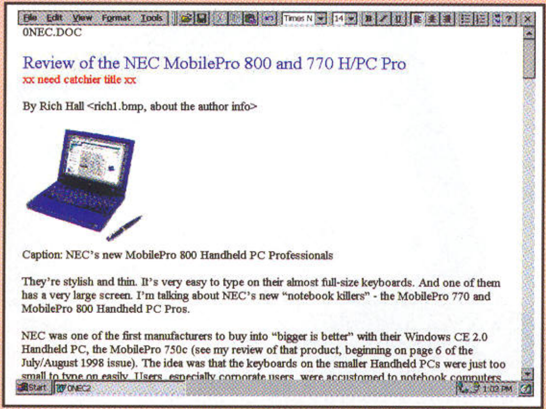
I only tested the Mobile-Pro 800's 56 kbps modem. Connecting to my local ISP was easy, and browsing the Web faster than before. The full screen made it easy to view the Web sites not optimized for the H/PCs with fi VGA screens.

The MobilePro 800 has its serial, VGA-out, and USB ports located in the back-edge



InkWriter is
New to
The HPC Pro!

Screen 1: New to the MobilePro and all H/PC Pros is Inkwriter, an application that lets you make quick, handwritten notes or draw sketches, diagrams or maps.



0NEC.DOC

Review of the NEC MobilePro 800 and 770 H/PC Pro

xx need catchier title xx

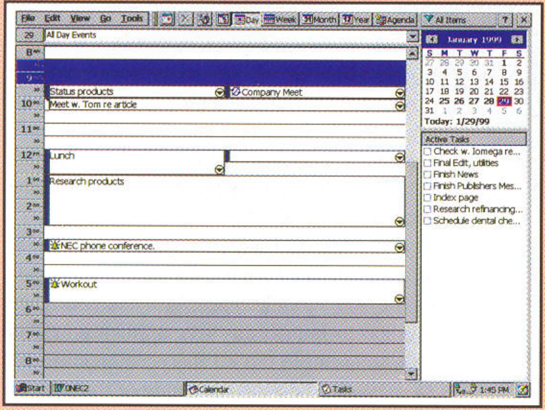
By Rich Hall <rich1.bmp, about the author info>

Caption: NEC's new MobilePro 800 Handheld PC Professionals

They're stylish and thin. It's very easy to type on their almost full-size keyboards. And one of them has a very large screen. I'm talking about NEC's new "notebook killers" - the MobilePro 770 and MobilePro 800 Handheld PC Pros.

NEC was one of the first manufacturers to buy into "bigger is better" with their Windows CE 2.0 Handheld PC, the MobilePro 750c (see my review of that product, beginning on page 6 of the July/August 1998 issue). The idea was that the keyboards on the smaller Handheld PCs were just too small to type on easily. Users, especially corporate users, were accustomed to notebook computers

Screen 2: The MobilePro 800 displays Pocket Word on a full-sized 640x480 or 800x600 screen. Shown here is a draft version of this article in Pocket Word.



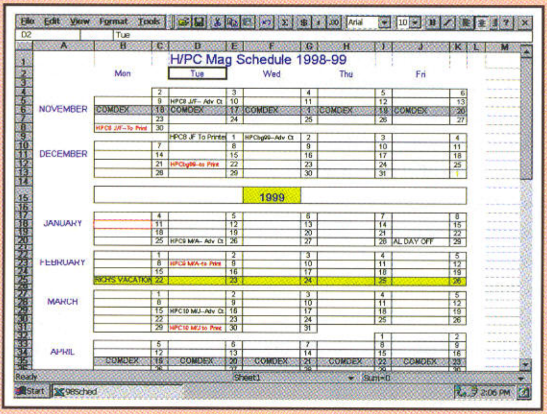
- 9:30 Status products
- 9:30 Company Meet
- 10:00 Meet w. Tom re article
- 12:00 Lunch
- 1:00 Research products
- 3:30 NEC phone conference.
- 5:00 Workout

Today: 1/29/99

Active Tasks

- ☐ Check w. Iomega re...
- ☐ Final Edit, utilities
- ☐ Finish News
- ☐ Finish Publishers Mes...
- ☐ Index page
- ☐ Research refinancing...
- ☐ Schedule dental che...

Screen 3: The full-screen view of Pocket Calendar, displayed from the MobilePro 800, lets you see a full day of appointments. Week, Month, and Year views are also very easy to read.



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3											
4			2		3		4		5		6
5			9	HPC8 J/F-- Adv Ct	10		11		12		13
6	NOVEMBER	COMDEX	16	COMDEX	17	COMDEX	1	COMDEX	19	COMDEX	20
7			23		24		25		26		27
8		HPC8 J/F--To Print	30								
9				HPC8 JF To Printe	1	HPCbg99--Adv Ct	2		3		4
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33			5		6		7		8		9
34	APRIL		12		13		14		15		16
35		COMDEX	19	COMDEX	20	COMDEX	21	COMDEX	22	COMDEX	23

Screen 4: Pocket Excel displayed on the full-screen of the MobilePro 800. Shown here is the Excel spreadsheet we use to keep track of publishing deadlines at *Handheld PC Magazine.*

of the unit, behind easy-to-access covers. The MoblePro 770's battery is located along the back edge, so NEC had to place its serial and VGA-out ports along the left edge. They are protected by little rubber covers that are a little more difficult to pop off and put back on.

Operating system and built-in applications

The NEC MobilePro 770 and 800 come with the Windows CE 2.11 operating system and H/PC Pro applications built into ROM. These include Pocket Word, Pocket Excel, Pocket Outlook (Calendar, Contacts, Tasks, Inbox), Pocket PowerPoint (presentations), Pocket Access (database), Pocket Internet Explorer, InkWriter (a pen-entry note taker), and various Accessories (Calculator, World Clock, Terminal, Solitaire, Voice Recorder).

They provide all the basic software you'll need for keeping an appointment book, tracking names and addresses, listing your tasks, word processing, using spreadsheets, and more. New to the built-in applications with the H/PC Pro are Inkwriter and Pocket Access. Inkwriter (see Screen 1) lets you make quick, handwritten notes or draw sketches, diagrams or maps. Pocket Access (see Screen in separate article on page 31) lets you create Access databases on the H/PC Pro, or download existing Access databases from your desktop PC. You lose some features from the desktop version, but Pocket Access is still a great addition.

The other built-in applications are still there. But they're displayed a little larger on the MobilePro 800. See Screens 1 through 4 on this page for examples of Pocket Word, Pocket Excel, Inkwriter and Calendar displayed on the larger screen.

Is the NEC MobilePro a "Notebook Killer?"

That's the big question on everyone's mind, and it applies to all of the Handheld PC Pros. Both of the MobilePros look a lot like small notebook computers. They have keyboards like small notebook computers. And the MobilePro 800 even has a screen as good as some of the best notebook computers. MobilePros are instant-on/off devices, which means there's no long bootup process. The operating system and most of the applications you'll ever need come built into the unit. You (or your MIS department) won't have to install them or re-install them. Finally, the battery life surpasses Win95/98/NT notebooks and the price is very competitive.

I don't think Windows 95/98/NT notebook computers will die out, but two things will happen. First of all, I believe that MobilePros and other H/PC Pros will carve out a fair chunk of the notebook niche in a year or two. There will always be a few users that need the power of an 95/98NT notebook, but most don't. Sales of H/PC Pros will be driven by corporate adoption of the devices. They get the job done, are generally less expensive and easier to maintain. Secondly, I think that the competition from H/PC Pros will cause manufactures of traditional notebooks to adapt. Expect to see smaller, faster, less power-hungry notebooks. This will be good for notebook power users.

Is a NEC MobilePro for you?

It really depends on how you use, or plan to use a PC Companion when you're away from a desktop PC (office or home). Below are some user categories, along with recommendations.

1. Names, dates and notes please. This person uses a computer to keep track of where he or she is, should be, check on phone numbers, and make very brief notes. They may want to play a game occasionally. You can do this on the MobilePro, but it's overkill. Unless you fit into one of the other user categories, consider a Palm-size PC.

2. I need to do a little work and a little play. This person checks appointments and phone numbers, but will also do a little work away from his or her desk. Maybe write some memos or letters, send and receive e-mail, work on a spreadsheet. For fun, they might play a few games or occasionally browse the Web. A portable computer will not be a huge part of their business or personal life, but a handy thing to have when they need it. I think they need more than a Palm-size PC. Of the two units I reviewed, I'd probably recommend the MobilePro 770 for this person. (Ironically, as Editor of *Handheld PC Magazine*, I spend most of my time at the office in front of a desktop PC. I fit more into this category and would go for the 770.)

3. Motel productivity. This person not only spends a lot of time away from the office, he or she needs to communicate with the rest of the world and use the basic functions of a computer on the road. In other words, they need to take their office with them wherever they go, to write reports, send e-mail, track their contacts and schedules, browse the Web and more. If I were this person, I would choose the MobilePro 800 because of its larger screen. It's not only easier to browse the Web on a full-size screen, it's much easier to write and edit documents of any kind on a larger screen. You can see more of the document, and use the navigation keys less.

Some mobile users take a notebook with them, but leave it in their motel room or luggage when they out visiting a client. Although the MobilePro 800 is light enough to carry around in a briefcase, you might not want to. Some mobile users carry both a Palm-size PC (for appointments, phone numbers and quick notes) and an H/PC like the MobilePro (for memos, letters, and other keyboard-intensive work).

4. Corporate power user. This person absolutely has to have a computer that has lots of power, memory, or can run applications written for Windows 95/98/NT. This person would be dissatisfied with any H/PC or H/PC Pro, for now. However, more and more applications are being written for, or ported over to run on the Windows CE operating system. I doubt that sophisticated layout programs like Quark Express will make it to Windows CE anytime soon, but a lot of application developers are working on Windows CE solutions.

I liked both of these machines, but was more enamored by the larger screen of the MobilePro 800. My use of the machine would be to write and edit articles, browse the Web for information, e-mail back and forth between authors and vendors, and track the progress of projects with spreadsheets and Pocket Access databases. Most of these tasks are easier to do with a large screen.

The NEC MobilePro 800 H/PC Pro will retail for $1,000. The NEC MobilePro 770 H/PC Pro for $800. Both will be available through NEC dealers, and authorized online retailers including The NEC Online store (www.nec-now.com/necnow/). ■

Bonus software for the NEC MobilePro 770 and 800

Both NEC MobilePros come with the following bonus applications on CD ROM. This software is also available from its developers.

IntelliSync for Act and Organizer (Puma Technologies, www.pumatech.com). Software that lets you synchronize date with Lotus Organizer and ACT! contact manager.

bFAX Express (bSQUARE Corp, www.bsquare.com). Mobile communications software that lets you fax text (.txt), rich text format (.rtf) and bitmap (.2pb) files from your NEC MobilePro. Includes fax preview function.

ImageExpert CE 30-day trial version (Sierra Imaging, www.sierraimaging.com/) Lets you view images from a digital camera on your NEC MobilePro. Image Expert CE is compatible with any camera that stores images in JPEG (JPG) or Bitmap (.BMP) formats.

Connect Force (Ruksun Software Technologies, www.ruksun.com/) An Internet Connection Wizard that lets you easily setup and configure any Internet Connection icon on your NEC MobilePro. Pre-canned ISP databases and phone numbers make it easy for users to simply select their ISP and their location, in order to configure their Internet Connection icon.

JETCET PowerPoint Companion (WESTTEK, www.westtek.com) Print driver that lets you convert source files from your MobilePro Pocket applications into PowerPoint presentations.

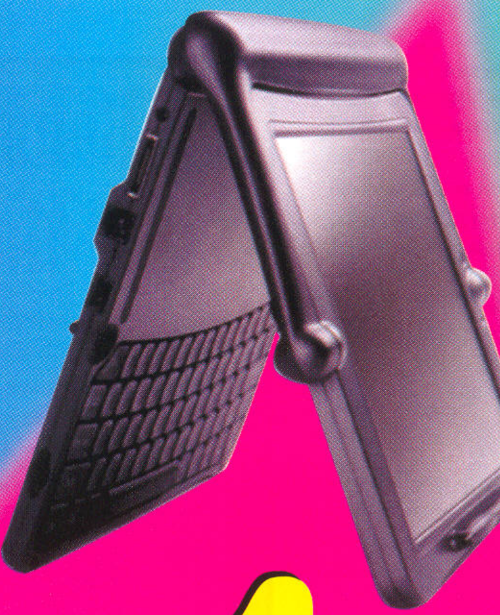
JETCET Print (WESTTEK, www.westtek.com) Adds printer support for a wide range of high-speed printers.

HPC dbExplorer (Phatware, www.phatware.com) Lets you browse and manage databases on your MobilePro. Copy, Rename, Delete, Backup.

Randsoft Harmony 98 30-day trial (Rand Software, www.randsoft.com) Adds embedded one-click synchronization between the NEC MobilePro and contact managers, including MS Outlook97, Lotus Organizer `97, Ecco Pro 4.0, ACT! 3.0.

3 H/PC PROS in 1

By
Chris
De Herrera



Display mode
Make Pocket PowerPoint presentations!

Tablet mode
Enter text with Calligrapher handwriting recognition program and access features through its touchscreen.

Microsoft Windows CE

Notebook mode
Clio comes with a near full-size keyboard and can be used as a notebook computer.

Vadem Clio

By far the sexiest and sleekest designed Handheld PC, Professional Edition is the Vadem Clio...

If you see someone with one you'll recognize its revolutionary screen and keyboard packaging.

At 11.25" x 8.75" x 1" and weighing 3.2 pounds it resembles a notebook PC — at first glance. But Clio's unique folding hinges let you use the H/PC Pro in three different positions.

Use in three different positions

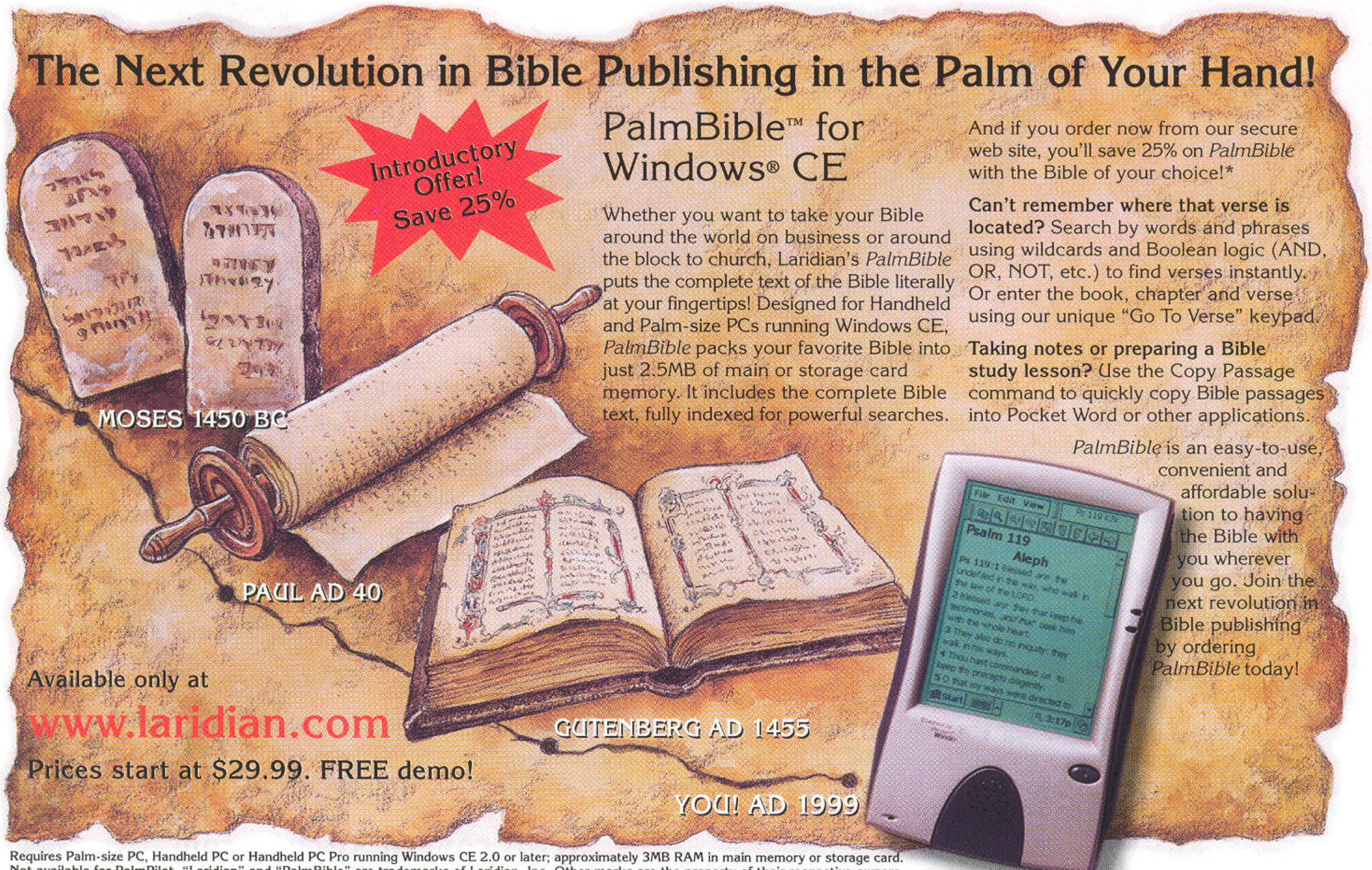
Open Clio up and it looks a little like a vanity mirror attached to a keyboard (see Notebook mode, previous page). The backlit 9.4" 640x480 256 color VGA screen tilts forward and back as well as at angles to provide the best viewing angles and location. This design lets the user adjust the screen closer to them. It also moves the center of gravity forward so when you click or draw on the touchscreen you won't knock the unit on its back. Also the keys on the near full-size keyboard are angled out for easier typing. The design is the thinnest H/PC Pro I've seen yet. Finally, the screen is able to sit open for tablet mode operation (see Tablet mode, previous page). When the user switches to this mode, the built-in Calligrapher handwriting recognition software is automatically launched. The user can select which applications to launch in this mode from the control panel. It also has a Display mode for small group presentations (see Display mode, previous page). In presentation mode, Clio has no rubber feet so be careful – it slides easily on smooth surfaces.

Nice set of hardware features, but...

Clio comes with a PC Card slot, AC adapter slot, serial port, 33.6k software modem and IrDA port (all on the right side of the unit). The notification LED is in the front for easy viewing. Although the Clio's serial port is not standard, a small adapter is included to convert it to a standard 9 pin serial port.

Clio's 10-hour lithium ion battery and its CompactFlash (CF) slot are located in the back of the unit and you must remove the main battery to access the CF slot. The placement of the CompactFlash card has some drawbacks. First of all, you cannot use the CF slot for anything but adding memory. For example, you couldn't connect a CF

Chris De Herrera is a special correspondent and contributing author for Handheld PC Magazine. He maintains one of the best Windows CE Web sites (www.cewindows.net). Chris is a Microsoft Comm Link columnist covering communications and Windows CE issues on Microsoft's Windows CE Web site. He is also a Microsoft Most Valuable Professional for Windows CE and writes articles on Windows CE for his own Web site and for other mobile computing publications. Chris regularly participates in chats on Microsoft Network and various newsgroups (including Microsoft.public.windowsce). You can e-mail chris at chris@cewindows.net.



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And if you order now from our secure web site, you'll save 25% on *PalmBible* with the Bible of your choice!*

Can't remember where that verse is located? Search by words and phrases using wildcards and Boolean logic (AND, OR, NOT, etc.) to find verses instantly. Or enter the book, chapter and verse using our unique "Go To Verse" keypad.

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PalmBible is an easy-to-use, convenient and affordable solution to having the Bible with you wherever you go. Join the next revolution in Bible publishing by ordering *PalmBible* today!

Available only at

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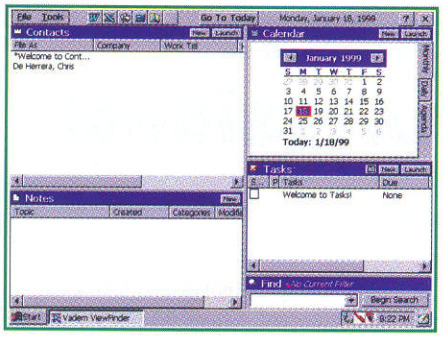
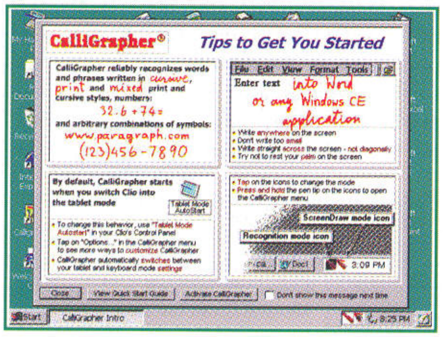
Prices start at $29.99. FREE demo!

Requires Palm-size PC, Handheld PC or Handheld PC Pro running Windows CE 2.0 or later; approximately 3MB RAM in main memory or storage card. Not available for PalmPilot. "Laridian" and "PalmBible" are trademarks of Laridian, Inc. Other marks are the property of their respective owners.
*Use priority code HPC0399 to qualify for discount. See web site for details.


File Tools
Go To Today
Monday, January 18, 1999
Contacts
Calendar
January 1999
Tasks
Welcome to Tasks!
Notes
Find
Begin Search
Start
Vadem ViewFinder
8:22 PM

Screen 1: Vadem built Calligrapher into Clio, providing handwriting recognition capability. Calligrapher is automatically activated when Clio is put into tablet mode.


CalliGrapher® Tips to Get You Started

CalliGrapher reliably recognizes words and phrases written in cursive, print and mixed print and cursive styles, numbers: 32.6 + 74 = and arbitrary combinations of symbols: www.paragraph.com (123)456-7890

Enter text into Word or any Windows CE application

- Write anywhere on the screen
- Don't write too small
- Write straight across the screen - not diagonally
- Try not to rest your palm on the screen

By default, CalliGrapher starts when you switch Clio into the tablet mode

- To change this behavior, use "Tablet Mode Autostart" in your Clio's Control Panel
- Tap on "Options..." in the CalliGrapher menu to see more ways to customize CalliGrapher
- CalliGrapher automatically switches between your tablet and keyboard mode settings

- Tap on the icons to change the mode
- Press and hold the pen tip on the icons to open the CalliGrapher menu

☐ Don't show this message next time

File Edit View Format Tools
Tablet Mode AutoStart
ScreenDraw mode icon
Recognition mode icon
3:09 PM
Close
View Quick Start Guide
Activate CalliGrapher
Start
CalliGrapher Intro
8:25 PM

Screen 2: Vadem ViewFinder lets users edit and create new Calendar, Contacts, and Tasks on one screen, as well as launch Pocket Excel, Word, PowerPoint, and the Calculator.

modem card to a phone line because the main battery would be in the way. Also, to access the CF slot you have to disconnect the main battery, and the backup battery lasts about 10 minutes. Be quick about inserting or removing a CF card. There's a trick to removing the CompactFlash cards since the slot does not have an eject button. Press down on the card with your thumb while you pull back to remove it. The Clio has a nice Control Panel application with a battery meter to help you estimated time remaining on your main and backup batteries.

Under the hood the Clio is powered by an 84 mhz NEC Vr4111 MIPS processor, with an adequate 16 MB of RAM. I recommend that users partition their memory to allow for 4 MB of program execution and 12 MB of storage. This is done from Start - Settings - Control Panel - System. Clio's RAM is upgradeable to 32MB, and its ROM is user upgradable to accommodate new versions of Windows CE. The unit is not as fast as some of the other H/PC Pros, but operates fine for most functions. You may notice that the unit is a little slow browsing Web sites that display a lot of graphics.

ViewFinder a built-in bonus

The Clio comes with the standard H/PC Pro software complement of Pocket Word, Excel, PowerPoint, Access, Calendar, Contacts, and Tasks. Vadem has also included Calligrapher handwriting recognition (see Screen 1), ViewFinder as well as bFax Pro, all built into ROM. ViewFinder (see Screen 2) allows users to view, edit and create new Calendar, Contacts and Tasks all on one screen at the same time as well as launch Excel, Word, PowerPoint and Calculator. ViewFinder is more useable than the similar application found on the HP Jornada.

Clio does not have a USB or VGA port, but you can add an optional Voyager PC Card for VGA output. The big strength of this unit is its three-position design, allowing you to use it as a notebook, a tablet, or for a full VGA presentation. If it looks similar to the Sharp Mobilon TriPad, it's because the hardware is identical – Vadem manufacturers it for Sharp, although Sharp includes a different set of add-on software programs. ■

Vadem Clio — $999; Contact Vadem, Phone (U.S.): 408-467-2100; E-mail: info@vadem.com; Web: www.vadem.com/home.html.

3Com
Palm III
Small Talk
Basics
Transportation
Lodging
Money/Sh.
Emergency
Business
Food
Entertainment
Social
small TALK TRANSLATOR

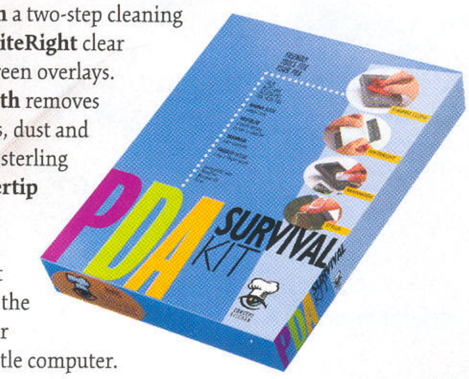
Your PDA.. turned language translator

Small Talk, the incredible software that turns your PDA into a two-way translator, enabling two people who don't speak the same language to communicate. It allows you to translate between English, French, Spanish, German, Italian and for the PalmIII™, Japanese as well.

NOW AVAILABLE FOR WINDOWS CE PALMTOP PC'S

Your PDA lives in a hostile environment

The environment you put your hand held computer in is quite often brutal. Give it the best care possible with the new PDA Survival Kit, four essentials to make it last longer and work better. **Brain Wash** a two-step cleaning system. **WriteRight** clear textured screen overlays. **Karma Cloth** removes fingerprints, dust and debris. The sterling silver **Fingertip Stylus.** The PDA Survival Kit helps make the most of your powerful little computer.


PDA SURVIVAL KIT

Available at:
Fry's
Staples
MicroCenter
PC Connection
Mobile Planet
ComputerWare
Cyberian Outpost
DataVision
RCS

www.conceptkitchen.com

CONCEPT KITCHEN

Taking PRODUCTIVITY to the MAX!

Utility and productivity applications fill in the gaps and enhance your PC Companion.

By Rich Hall

This special section is on utility and productivity software you can buy, or download for free, to enhance your Windows CE Palm-size PC or Handheld PC.

In researching this issue, we discovered that the term "utility" is used rather loosely in the software industry. The best definition I could come up with is as follows:

A "utility" is a small software program that does something to enhance your work environment. A utility is not a software "application" in that it does not produce a document or data file (like a word processor creates a document or a sketch pad products a graphic). A task manager or a file converter are examples of utility programs.

We also look at "productivity programs" in this issue. Productivity programs are small applications created to improve productivity - very similar to the definition of "utility." A productivity program may or may not create a document, but that is not its main function. For example, it would be hard to argue that programs like Pocket Word or Pocket Excel do not improve productivity, but the whole purpose of a word processor, or a spreadsheet program is to create a document. They are applications, not "productivity programs" in the sense that we use the phrase in this issue. An example of a productivity program would be an expense tracker, used to track the money your spend on a trip. It may or may not be able to produce a printed out report, but the main purpose of this small program is to track expenses - it is a productivity program.

Utility programs can certainly improve your productivity. And productivity programs can be very small and not produce documents. For this issue, it's simpler not to distinguish between them.

What follows is a quick look at a number of products. What they have in common is that they enhance your PC Companion and make you more productive. We've looked over past articles in Handheld PC Magazine, consulted contributing writers, looked at popular Web sites and other publications, and put together this section.

Top Products

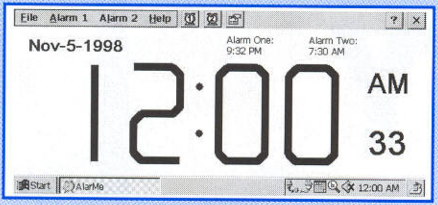
This section begins with specific categories of utilities and productivity software and then lists packages that did not fit in any particular category. In a few cases we simply list the name of a company that produces a whole lot of good software. We took suggestions from our contributing authors, and made a subjective decision about what to list as a "top program." The ***1999*** **Handheld PC Magazine** ***Buyer's Guide*** *gives a much more comprehensive listing of the utility and productivity software available.*

Calculators

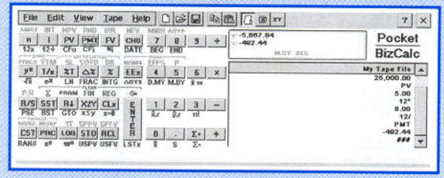
PC Companions come with a simple calculator built in, but a number of excellent add-on calculators have been developed by independent vendors.

Calcy Force ($35, use with H/PC & Ps/PC, Ruksun Software, www.ruksun.com/wince/) A Scientific Calculator that supports base conversions, arithmetic, logical, trigonometric and logarithmic functions.

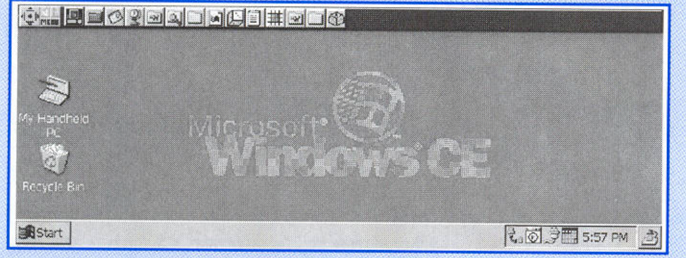
CoolCalc ($29.95, H/PC & Ps/PC, Applian Technologies, www.applian.com) An Algebraic or RPN scientific calculator, computer math calculator, financial calcula-


File Alarm 1 Alarm 2 Help
Nov-5-1998
Alarm One: 9:32 PM
Alarm Two: 7:30 AM
12:00
AM
33
Start
AlarMe
12:00 AM

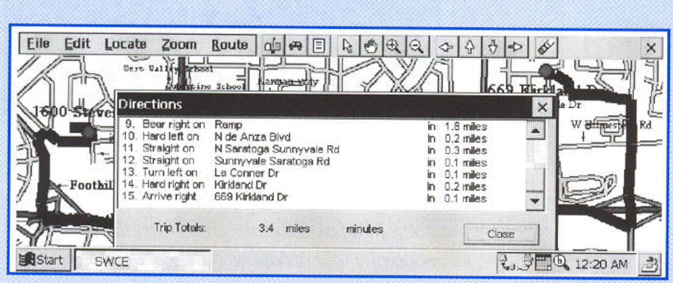
Alarm me turns your handheld into an alarm clock.


File Edit View Tape Help
Pocket BizCalc
My Tape File

Pocket BizCalc adds a full-featured business/financial calculator to your H/PC (shown here) or Palm-size PC. BizCalc emulates the HP-12C.


My Handheld PC
Recycle Bin
Microsoft Windows CE
Start
5:57 PM

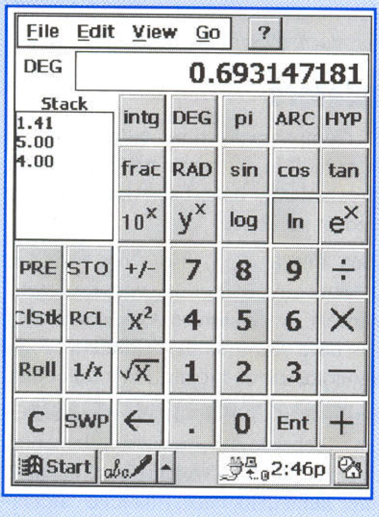
CeAppBar adds an application button-bar to your H/PC.


File Edit Locate Zoom Route
1600 Steve
Foothil
669 Kirkland Dr
W Homestead Rd
Directions
Close
Start
SWCE
12:20 AM

9.	Bear right on	Ramp	in	1.8 miles
10.	Hard left on	N de Anza Blvd	in	0.2 miles
11.	Straight on	N Saratoga Sunnyvale Rd	in	0.3 miles
12.	Straight on	Sunnyvale Saratoga Rd	in	0.1 miles
13.	Turn left on	La Conner Dr	in	0.1 miles
14.	Hard right on	Kirkland Dr	in	0.2 miles
15.	Arrive right	669 Kirkland Dr	in	0.1 miles

Trip Totals: 3.4 miles minutes

Street Wizard CE ships with desktop and Windows CE versions. Download maps from desktop to H/PC. Street Wizard will calculate the best route between any two or more street addresses and give you turn-by-turn directions.


File Edit View Go ?
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frac RAD sin cos tan
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PRE STO +/- 7 8 9 ÷
ClStk RCL x^2 4 5 6 ×
Roll 1/x √x 1 2 3 —
C SWP ← . 0 Ent +
Start
2:46p

CoolCalc adds an algebraic or RPN scientific calculator, computer math calculator, financial calculator and conversion calculator. Available for Palm-size PC (shown here) or H/PC.

tor and conversion calculator. CoolCalc includes over 100 different functions, and a macro feature.

Financial Consultant and Fiscal Pro ($39.95 each, H/PC & Ps/PC, LandWare, www.landware.com) Solve Investment analysis problems, Date Calculations, Loans, Leasing and Mortgages, Amortizations and more. Financial Consultant is a little more powerful and includes scientific functions. Fiscal Pro uses an interesting 'forms-based" to make data entry easier.

Pocket BizCalc ($39.95, H/PC & Ps/PC, Odyssey Computing, www.odysseyinc.com). A full-featured business/financial calculator emulating the HP-12C. Use RPN entry to perform loan/mortgage, discounted cash flow, bond, compound interest, leasing, actuarial and markup functions, depreciation, and amortization schedule and more. Odyssey Computing also developed MBA-Calc, a business/financial calculator that emulates the Texas Instruments BA-II Plus.

Pocket Solver ($32, H/PC & Ps/PC, Surerange Analysis, www.surerange.com) An equation calculator that lets you type in an equation and enter values for all but one of the variables.

RapidCalc ($13.95; Ps/PC, Developer One, www.developer one.com/) Accessed from the Palm-sized PC's soft-input panel and used to perform quick calculations and past them into other documents.

Contact Managers

H/PCs and Palm-size PCs come with Calendar, Contact and Task capability built in. But many professionals have used and prefer dedicated contact management software. Two of the most popular programs are:

ACT! for Windows CE ($99.95, H/PC, Symantec, www.symantec.com) This version of ACT! is based on the desktop version and exchanges data seamlessly with it. It incorporates the main features of the desktop version and has a similar user interface. It includes contact database, scheduler, comprehensive log, and other features.

Pocket On-Schedule ($89.95, H/PC, Odyssey Computing, www.odysseyinc.com) A couple of our contributing authors use and like the H/PC version of this popular contact manager. Pocket On-Schedule features unlimited phone books, daily/weekly/monthly/6 & 8-months calendar views, to-do list and journal views, dialing/e-mail/Internet support, contact history, advanced filters, global search, contact information templates, and customizable layouts.

Handwriting Recognition Programs

Palm-size PCs come with a simple version of JOT built-in, but there other full-featured programs available for Ps/PCs and H/PCs.

ART Recognition ($59.95, demo, H/PC & Ps/PC, ART, www.art-comp.com) Adds voice recognition and enhanced handwriting recognition to PC Companions. Bundle includes: SmARTwriter – adds handwriting recognition that learns to recognize your handwriting; Pocket Commander – adds voice command capability to launch or open any application or file, and send voice mail via e-mail with a voice command.

CalliGrapher ($49.95, demo, H/PC & Ps/PC, ParaGraph, www.paragraph.com/) Adds handwriting recognition for all styles - cursive, print or mixed. No training required. Screen drawing, note-taking, spell checking supported.

Jot ($59, demo, H/PC) & Jot Pro ($29, Ps/PC, CIC, www.cic.com) Provides simple handwriting recognition capability. User must learn Jot's characters and enters individual characters.

Navigation Software

Pocket Streets (Free, H/PC & Ps/PC, Microsoft, www.microsoft.com/expedia/) Application that lets the users download portions of maps from Microsoft's desktop PC map programs, including Expedia Streets, Mappoint and Trips 2000. See review, page 28 this issue. Pocket Streets is free, but the desktop map programs cost $50-$70.

HandMap (Freeware demo, Ps/PC, Evolutionary Systems, www.handmap.net) An electronic street directory that lets users zoom in and out and pan around looking at the map of the city or region installed. Sample & purchased maps are linked to form a growing network.

Street Wizard ($74.95, H/PC, Adept Computer Solutions, www.streetwizard.com) Ships with desktop and Windows CE applications and a CD-ROM that includes street-level maps for the entire USA, except Alaska. Download map from desktop version and use H/PC to look up addresses, airports and various other places. You can zoom, pan, and scroll to display areas of interest. Street Wizard for CE will automatically calculate the best route between any two or more street addresses. The route is then highlighted and the text directions displayed on the screen.

Synchronization Programs

IntelliMigrate ($39.95, H/PC & Ps/PC, Puma Technology, www.pumatech.com) Translates data from one PDA format to Windows CE format as well as several other types of palmtops or PDAs.

Intellisync ($69.95, H/PC & Ps/PC, Puma Technology, www.pumatech.com) Provides direct synchronization of contacts, calendar and task information between Windows CE and a wide range of PC-based contact managers, personal information managers and group schedulers. Programs supported for synchronization include Act!, Outlook 97, Microsoft Schedule+, Lotus Organizer, ECCO, GoldMine, NetManage, Day Timer Organizer, Sidekick, and others.

Maximizer CELink ($49, H/PC, Maximizer, www.maximizer.com) Provides two-way synchronization with Maximizer 97's Hotlist, Calendar, Contact files, and Notes with H/PC's PIM.

Randsoft Harmony 98 ($59.95, H/PC, Rand Software, www.randsoft.com) Provides embedded one-click synchronization between H/PCs and many contact managers (PIMS) by adding a menu bar inside the applications. It supports the following PIMS: MS Outlook97, Lotus Organizer `97, Ecco Pro 4.0, ACT! 3.0. A free trial version is available to download from the Randsoft Web site.

Utilities and productivity, Misc.

These products don't seem to fit in a nice sub-category, but are worthwhile nonetheless.

AlarmMe ($15, demo, H/PC, Eppen Software, www.eppen.com/alarme/) Turns your Handheld PC into an alarm clock and has big, easy to read numbers.

bSQUARE products (bSQUARE Technologies, www.bsquare.com) produces a variety of excellent productivity/utility software. They have recently enhanced and re-packaged their software into two comprehensive suites: bPRODUCTIVE and bUSEFUL. Both suites are described in a review, beginning on page 22.

CASIO Soft products. CASIO Soft (www.casiosoft.com) has just released three new packages for Windows CE devices. Check out the review on page 26.

CETuner ($14.99, H/PC, Paragon Software, www.mobile

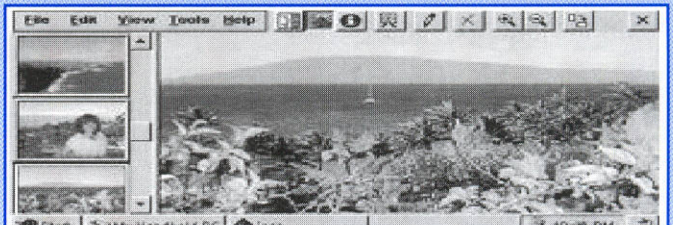
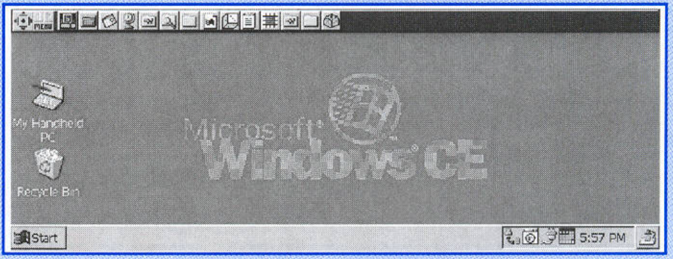
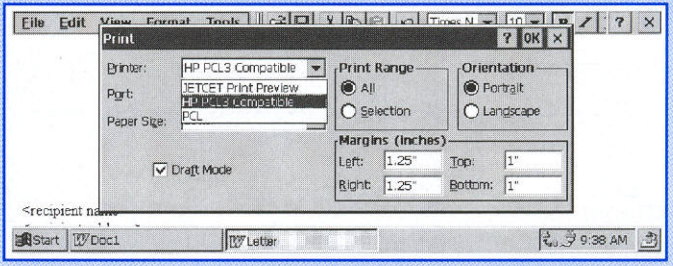

File
Edit
View
Tools
Help
Start
My Handheld PC
10:46 PM

Image Expert CE lets you view images from a digital camera on your H/PC. Annotate them with voice, ink or text and share them via e-mail and IrDA.


My Handheld PC
Recycle Bin
Microsoft Windows CE
Start
5:57 PM

E-Wallet adds a compact information manager that lets you store your information in cards. Available for H/PC (shown here) and Palm-size PC.


File
Edit
View
Format
Tools
Print
? OK ×
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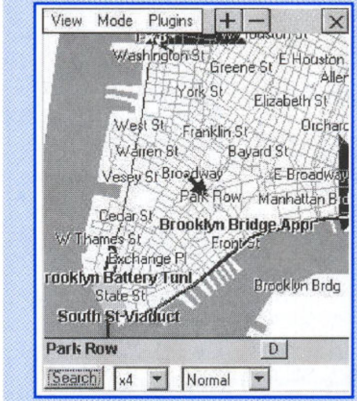
Doc1
Letter
9:38 AM

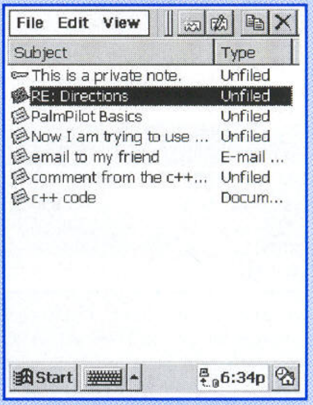
Printer: HP PCL3 Compatible
JETCET Print Preview
HP PCL3 Compatible
PCL
Port:
Paper Size:
☑ Draft Mode
Print Range
● All
○ Selection
Orientation
● Portrait
○ Landscape
Margins (inches)
Left: 1.25" Top: 1"
Right: 1.25" Bottom: 1"
<recipient na

JETCET Print adds color printing capability to the H/PC and support for many additional printers. Includes a Color Image Viewer, Enhanced Color & Monochrome Half-toning, and more.

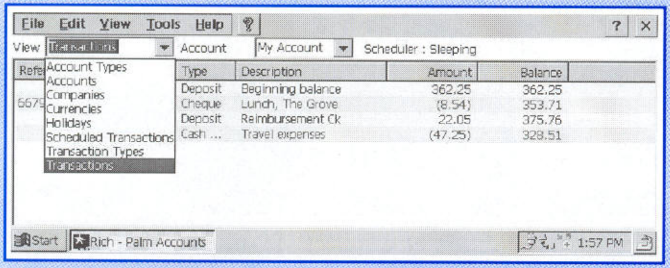

View
Mode
Plugins
Washington St
Greene St
E Houston
Allen
York St
Elizabeth St
West St
Franklin St
Orchard
Warren St
Bayard St
Vesey St
Broadway
E Broadway
Park Row
Manhattan B
Cedar St
Brooklyn Bridge Appr
W Thames St
Front St
Exchange Pl
rooklyn Battery Tunl
State St
Brooklyn Brdg
South St Viaduct
Park Row
D
Search
x4
Normal

Adds an electronic street map to your Palm-size PC. Company Web site has sample & purchased maps from around the world.

HPC Notes lets you create notes; organize them by type, subject, creation and modification date; and synchronize them with desktop version. Available for Palm-size PC (shown here) and H/PC.

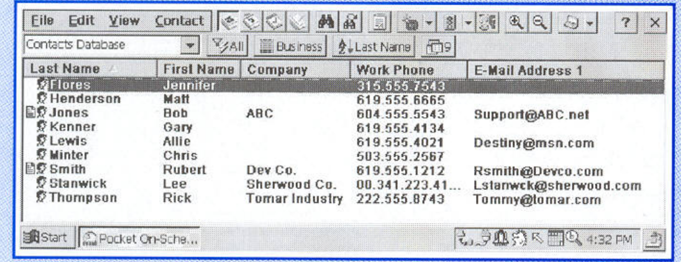

File
Edit
View
Start
6:34p

Subject	Type
This is a private note.	Unfiled
RE: Directions	Unfiled
PalmPilot Basics	Unfiled
Now I am trying to use ...	Unfiled
email to my friend	E-mail ...
comment from the c++...	Unfiled
c++ code	Docum...



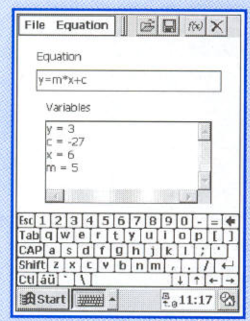
Type	Description	Amount	Balance
Deposit	Beginning balance	362.25	362.25
Cheque	Lunch, The Grove	(8.54)	353.71
Deposit	Reimbursement Ck	22.05	375.76
Cash ...	Travel expenses	(47.25)	328.51

Palm Accounts lets you track financial transactions in multiple accounts and currencies.



Last Name	First Name	Company	Work Phone	E-Mail Address 1
Flores	Jennifer		315.555.7543	
Henderson	Matt		619.555.6665	
Jones	Bob	ABC	604.555.5543	Support@ABC.net
Kenner	Gary		619.555.4134	
Lewis	Allie		619.555.4021	Destiny@msn.com
Minter	Chris		503.555.2567	
Smith	Rubert	Dev Co.	619.555.1212	Rsmith@Devco.com
Stanwick	Lee	Sherwood Co.	00.341.223.41...	Lstanwck@sherwood.com
Thompson	Rick	Tomar Industry	222.555.8743	Tommy@tomar.com

Pocket On-Schedule is an H/PC contact manager that features unlimited phone books, daily/weekly/monthly/6 & 8 months calendar views, to-do list and journal views, dialing/e-mail/Internet support, contact history, and more.



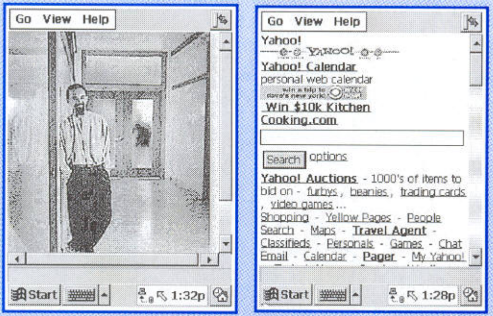
Equation

y=m*x+c

Variables

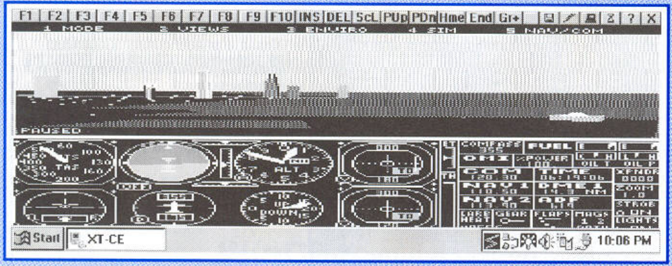
y = 3
c = -27
x = 6
m = 5

Pocket Solver adds an equation calculator to the Palm-size PC (shown here) or the H/PC. Pocket Solver lets you type in an equation and enter values for all but one of the variables.



Yahoo!
Yahoo! Calendar
personal web calendar
Win $10k Kitchen
Cooking.com
Search options
Yahoo! Auctions - 1000's of items to bid on - furbys, beanies, trading cards, video games ...
Shopping - Yellow Pages - People Search - Maps - Travel Agent - Classifieds - Personals - Games - Chat
Email - Calendar - Pager - My Yahoo!

ProxiWeb Browser is a full-featured, graphical Web browser for the Palm-size PC. ProxiWeb Browser is capable of displaying Web text and graphics, including online photos.


F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 INS DEL ScL PUp PDn Hme End Gr+
PAUSED
Start
XT-CE
10:06 PM

XTCE DOS Emulator creates a PC/XT-compatible computer with a CGA display and up to 1Mb of memory. You can install DOS and run DOS applications on your H/PC. Shown here is a DOS version of Microsoftís Flight Simulator running in XTCE on an H/PC.

Handheld PC Magazine Online Web Reference

Again, we tried to limit ourselves to the top utilities and productivity software in this issue. It's a tough call because new software is appears daily. For a comprehensive look at the Windows CE software available, including software we've just discovered, visit our *Handheld PC Magazine's* Web site, WWW.HPCMAG.COM.

soft.com) Enlarge fonts, soften colors, or increase work area on your H/PC to make information easier to see and use.

CeAppBar ($9.95, H/PC, Queen image, www.queenimage.com/) Lets you launch up to 100 different applications from a button bar on your H/PC.

DelUtilities (Free, H/PC, download at www.cemonster.com/) Delete unwanted data with a single click. DelGarbage deletes all your trash; DelHosts deletes the "hosts" entry from the registry; DelInternet deletes the temporary Internet cache; DelRecent deletes the recent list.

Dial4Me ($17.95, H/PC & Ps/PC, Sixxac, www.sixxac.com/ce) Organize and dial phone numbers from your PC Companion. Dial4Me generates dial tones from the phone numbers in your Contacts database. Hold the phone handset over the speaker.

Dial-a-matic ($19.95, H/PC, Applian Technologies, www.applian.com) Highlight a Contacts phone number, double-tap the Dail-a-matic icon and generate DTMF telephone tones that will dial most telephones.

Display Colors Applet ($12.00, shareware, H/PC, Xoanan, www.xoanan.com/windowsce/) Change the color scheme on your Windows CE 2.0 device.

Dutilities (Free, H/PC, D Collections, www.dcollections.com/) A combination of four different programs that let you setup the start programs on your handheld, adjust the sound, change the touch keys (HP 620LX), and view the amount of memory left.

e-Wallet ($29.95, H/PC & Ps/PC, Ilium Software, www.ilium-soft.com). Compact information manager that lets you enter misc. information (credit and calling cards, passwords, etc.) on 'cards' in your PC Companion. Synchronize your information to your desktop and have it safely wherever you need it.

FastTask ($10, shareware, H/PC & Ps/PC, Grundle Software, www.grundlesoftware.com/) Closes all active programs on your Palm-size PC with one simple click of its tray icon.

HPC dbExplorer ($24.95, H/PC & Ps/PC, PhatWare, www.phatware.com) Browse and manage databases on your PC Companion. Copy, Rename, Delete, Backup, Restore, and Transfer databases.

HPC NetProfile ($14.95, demo, H/PC & Ps/PC, PhatWare, www.phatware.com) Manage multiple profiles for connecting to the Internet or other TCP/IP-based networks with your PC Companion.

HPC Notes ($59.95, demo, H/PC & Ps/PC, PhatWare, www.phatware.com) Create notes and organize them by type, subject, creation and modification date. An H/PC and desktop PC version of the program are installed, and can be kept synchronized. Users can also synchronize notes directly with Microsoft Outlook.

Image Expert CE ($49.95, demo, H/PC, Sierra Imaging, www.sierraimaging.com/) View images from a digital camera on your H/PC. Annotate them with voice, ink or text and share them via e-mail and IrDA. Automatically synchronize H/PCs to the Windows 95/98/NT version of Image Expert. Image Expert CE is compatible with any camera that stores images in JPEG (JPG) or Bitmap (.BMP) formats. (CORRECTION: Sierra Imaging's The Buyer's Guide issue listed incorrect contact information for Sierra Imaging. Contact them at Phone: 877-446-2439 (toll free) or 831-461-2070; Fax: 831-461-2072; E-mail: iece@sierraimaging.com/

Internet Force ($69.95, H/PC, Ruksun Software, www.ruksun.com/wince/) Collection of Internet utilities, including Scotty FTP — Graphical FTP client that enables the upload or download of files. Telnet Force — Allows connections to a remote server. Net Force — A set of Internet utilities for the H/PC, especially useful to Network Administrators. Includes Finger, WHOIS and NS Lookup utilities.

JETCET Print ($24.95, H/PC) and JETCET Print Professional ($39.95, H/PC, WESTTEK, www.westtek.com) Adds color printing capability to the H/PC and support for many additional printers. Includes a color image viewer; enhanced color & monochrome half-toning; color & monochrome toner saver mode; side-by-side 2-up printing; supports output via a parallel card; print Pocket PowerPoint presentations; spool print jobs or work off-line; print from popular applications, i.e. Pocket Word & Pocket Excel.

Landware Productivity Pack ($39.95, demo, H/PC, LandWare, www.landware.com) Supports searching for a file, retrieving a file from an H/PC backup image, dialing the phone, adding a new task/contact and entering glossary text. Utilities include FindForce, HPC Vault, Pocket Dialit4Me, NewTask, New Contact, QuickText and LaunchBar.

ListPro ($24.95, demo, H/PC & Ps/PC, Ilium Software, www.iliumsoft.com) Lets you take notes and organize them into lists. Desktop companion version lets you make lists on your desktop PC and synch them with your PC Companion.

Microsoft Powertoys (Free, H/PC, Microsoft, www.microsoft. com/windowsce/downloads/pccompanions/default.asp) A set of utilities, including Remote Control (CE 1.0 only), Paint, Cascading Menus, Three new sound schemes, Mute, Arcade, Argyle, Cars, Castle, Chitz, Concrete, Honey, Squares, and Thatch bitmap tiles.

Mobile Channel viewer for H/PC (Free, H/PC, Microsoft, www .microsoft.com/windowsce/downloads/) Handheld PC version of the Mobile Channel viewer that lets users download and view Mobile Channel Web sites off line.

Palm Accounts (25 UK pounds, H/PC, demo, Stargate Software, www.stargate-software.co.uk/) Supports multi-currency transactions and lets you track financial transactions in multiple accounts. Palm Accounts is a standalone product and does not synchronize with Microsoft Money or Intuit's Quicken.

PowerTime ($17.95, demo, H/PC & Ps/PC, Sixxac, www.sixxac. com) A power monitoring tool that lets you track your rechargeable batteries. It maintains battery usage data and estimates remaining time.

ProxiWeb Browser (Free demo, Ps/PC, ProxiNet, www.prox inet.com/) A full-featured, graphical Web browser for the Palm-size PC.

QuickLaunch ($9.95, demo, Ps/PC, Applian Technologies, www.applian.com) Application launcher for Palm-size PC that lets you define two screens of 9 customizable buttons that will run any application on your Ps/PC.

RegEdit ($13, shareware, H/PC & Ps/PC, Grundle Software, www.grundlesoftware.com/wince.htm) Browse and search the entire registry; add, delete or modify Keys; add or modify Value Types; cut, copy, paste, and drag and drop moving values; and rename values.

ScottyFTP Client ($29.95, H/PC & Ps/PC, Ruksun Software, www.ruksun.com) Lets you connect to any FTP server and upload or download files.

StickyShift for Windows CE ($19.95, H/PC, Applian Tech, www.applian.com) Press and release the H/PC's shift key and then press the key you want shifted.

SysInfo Browser ($9.95, demo, H/PC, The Web Mill, www.webmill.com/ce) Displays information about your device, including over 100 parameters of interest to users and H/PC developers.

Tascal RegEdit (Free, H/PC & Ps/PC, www.cemonster.com) A registry editor for Windows CE devices, similar to the Windows 95/NT registry editor.

Utility Closet CE ($25, H/PC, Plannet Crafters, www.plannetarium.com) Collection of converters, timers, mini-notes, and other tools to simplify common tasks.

Visual CE ($129, H/PC, Syware, www.syware.com) Lets users create databases and forms-based applications to collect display and modify data on an H/PC.

VxHPC ($29.95, demo, H/PC, Cambridge Computer, www.cam.com /vxhpc.html) Lets you connect H/PCs to BBS's, Digital, Unix, Wang and Internet host systems.

XTCE DOS Emulator ($50, demo, H/PC & Ps/PC, Pyram-ID Prod., www.pyramid.demon.co.uk/) Emulates a PC/XT compatible computer with a CGA display and up to 1Mb of memory. You can install DOS and run DOS applications on your H/PC.

One Cat Doodler™v2.1

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- Text, freeform, polygons & more
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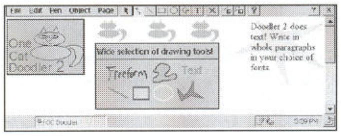
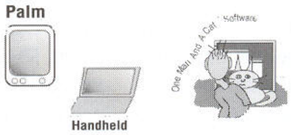


Wide selection of drawing tools!

Doodler 2 does text! Write in whole paragraphs in your choice of fonts.

The Librarian is in!

Keep commonly used figures in a handy library. Great for electronic and architectural symbols or anything else you draw repeatedly.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bUSEFUL

One of the bEST Windows CE utilities packages available

By Ed Zabrek, M.D.

Ed is Medical Editor of *Handheld PC Magazine*, a practicing obstetrician-gynecologist in Houston, Texas, and chief technology correspondent for OBGYN.NET (www. obgyn. net), a Web site for obstetricians, gynecologists, and related industry persons.

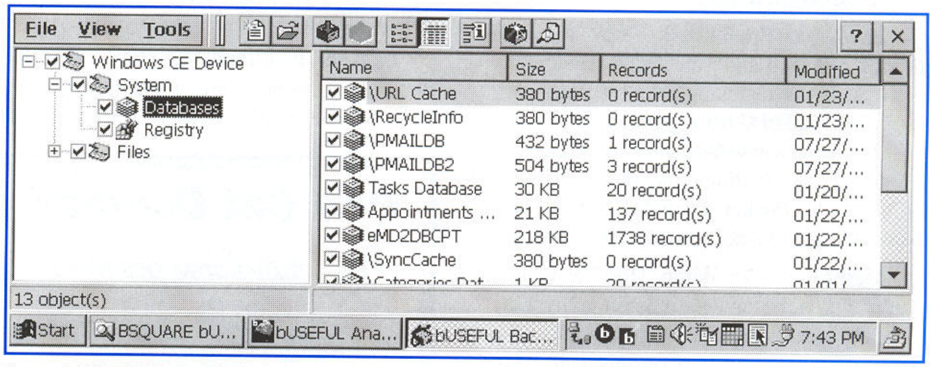
[EDITOR'S NOTE: This review tests bUSEFUL's applications on a Handheld PC, but all applications work on the Palm-size PC as well.]

bSQUARE Corporation recently introduced two new productivity suites: bUSEFUL Utilities Pak and bPRODUCTIVE Essentials Pak. Both products provide Windows CE users with an incredible collection of software for all three devices (Palm-size PC, H/PC, and H/PC Pro). This review looks at bUSEFUL. (Note: bSQUARE is an industry leader in the development of software for Windows CE.)

bUSEFUL Utilities Pak is a suite of twelve different utilities that enhance the functioning of your PC Companion (versions are available for the H/PCs, the H/PC Pros, and Palm-size PCs. These utilities include Backup Plus, Analyzer. Script, FindSpace, bFIND, Launch, List Plus, bTASK, NotePad, MoonPhase, HTML Editor, and UUEncode. I installed all of the utilities (1500 Kb total) onto a Flash memory card in my HP 660LX's PC Card slot and they functioned flawlessly. My only recommendation is that you keep your PC Companion connected to an AC power supply when running the more time-intensive applications (i.e. Backup Plus, Analyzer, and FindSpace). Here's a brief look at each utility.

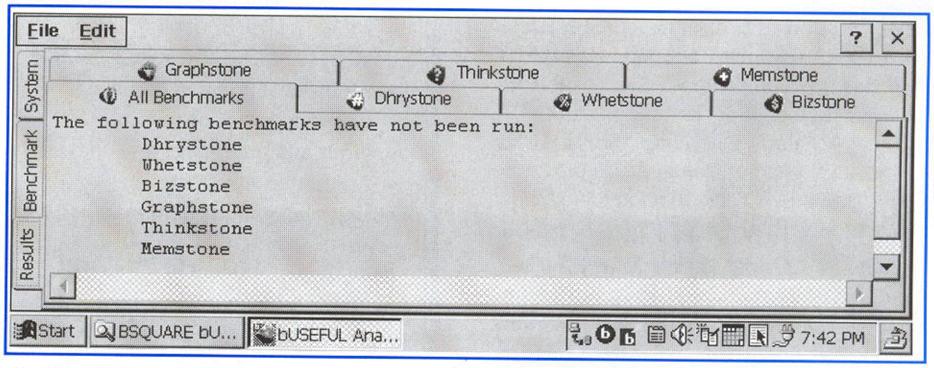
bUSEFUL Backup Plus (occupies 244k; also available as a standalone product for $34.95). If you ever crash your PC Companion, you'll thank your lucky stars that you have a current backup. Of course, Windows CE Services lets you do that, and comes free with every PC Companion. But bUSEFUL Backup Plus makes it faster and easier to keep a current backup. The program lets you back up all, or specific portions of your data. You can view the contents of your backup, and restore all, or portions of it (see Screen 1)

You can backup to a PC Card, a Compact Flash card, a desktop, laptop or network (network backup/restore for H/PC Pro only). The backup can be restored to any



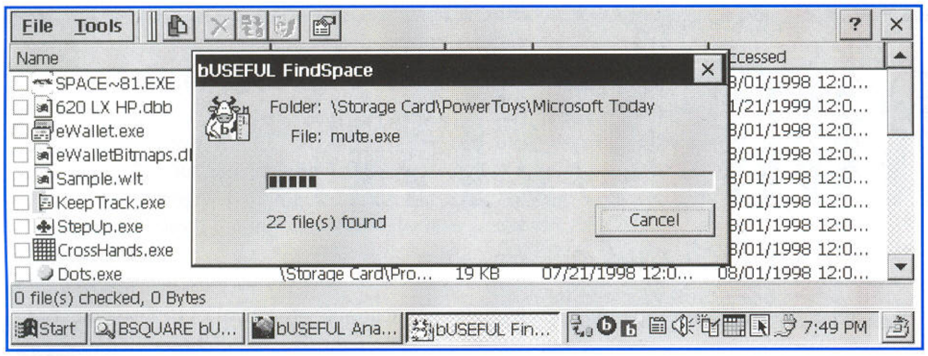
Name	Size	Records	Modified
☑ \URL Cache	380 bytes	0 record(s)	01/23/...
☑ \RecycleInfo	380 bytes	0 record(s)	01/23/...
☑ \PMAILDB	432 bytes	1 record(s)	07/27/...
☑ \PMAILDB2	504 bytes	3 record(s)	07/27/...
☑ Tasks Database	30 KB	20 record(s)	01/20/...
☑ Appointments ...	21 KB	137 record(s)	01/22/...
☑ eMD2DBCPT	218 KB	1738 record(s)	01/22/...
☑ \SyncCache	380 bytes	0 record(s)	01/22/...

Screen 1: bUSEFUL Backup Plus lets you back up all, or specific portions of your data. You can view the contents of your backup, and restore all, or portions of it.



```
The following benchmarks have not been run:
        Dhrystone
        Whetstone
        Bizstone
        Graphstone
        Thinkstone
        Memstone
```

Screen 2: bUSEFUL Analyzer evaluates your PC Companion using any of a number of industry-standard benchmarks and gives you feedback on various aspects of its performance.

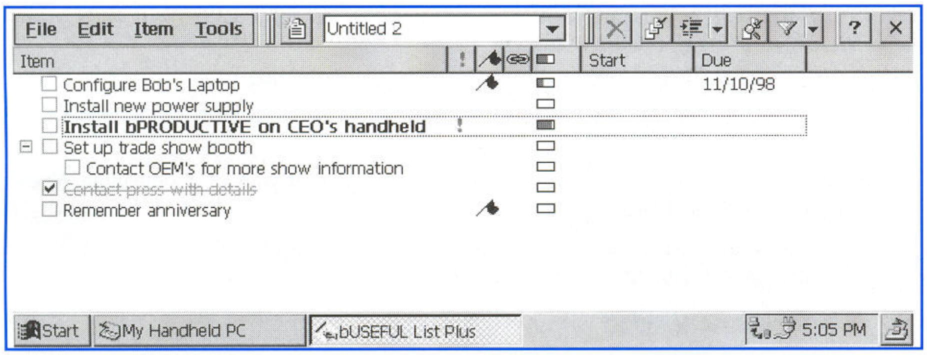

File Tools
?
×
Name
ccessed
Start
BSQUARE bU...
bUSEFUL Ana...
bUSEFUL Fin...
7:49 PM

☐ SPACE~81.EXE 3/01/1998 12:0...
☐ 620 LX HP.dbb 1/21/1999 12:0...
☐ eWallet.exe 3/01/1998 12:0...
☐ eWalletBitmaps.dl 3/01/1998 12:0...
☐ Sample.wlt 3/01/1998 12:0...
☐ KeepTrack.exe 3/01/1998 12:0...
☐ StepUp.exe 3/01/1998 12:0...
☐ CrossHands.exe 3/01/1998 12:0...
☐ Dots.exe \Storage Card\Pro... 19 KB 07/21/1998 12:0... 08/01/1998 12:0...

bUSEFUL FindSpace
Folder: \Storage Card\PowerToys\Microsoft Today
File: mute.exe
22 file(s) found
Cancel

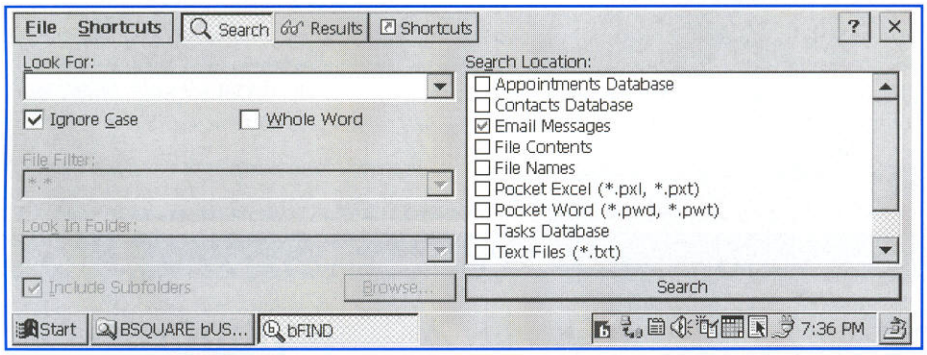
0 file(s) checked, 0 Bytes

Screen 3: bUSEFUL FindSpace lets you find and delete duplicate files, invalid shortcuts, and other unnecessary files from your PC Companion.


File Edit Item Tools
Untitled 2
?
×
Item
!
Start
Due
Start
My Handheld PC
bUSEFUL List Plus
5:05 PM

☐ Configure Bob's Laptop 11/10/98
☐ Install new power supply
☐ **Install bPRODUCTIVE on CEO's handheld** !
⊟ ☐ Set up trade show booth
  ☐ Contact OEM's for more show information
☑ ~~Contact press with details~~
☐ Remember anniversary

Screen 4: bUSEFUL List Plus lets you create multiple lists with hierarchal items and sub items, and provides project-tracking features, the ability to sort by importance, support for hyperlinks to Web sites or documents, alarms and more.


File Shortcuts
Search
Results
Shortcuts
?
×
Browse...
Search
Start
BSQUARE bUS...
bFIND
7:36 PM

Look For:

☑ Ignore Case ☐ Whole Word

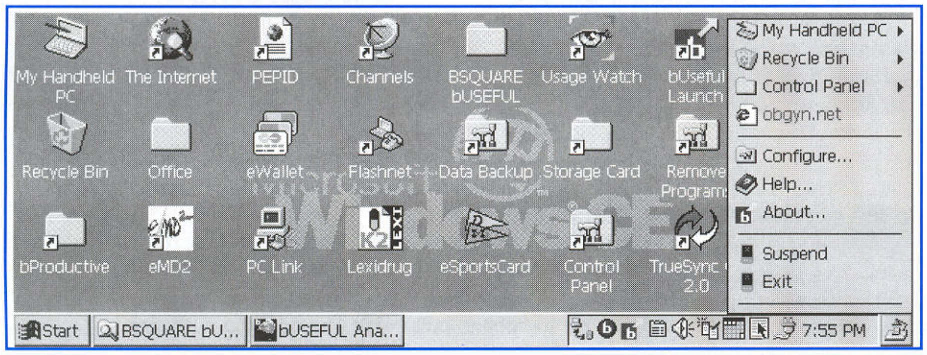
File Filter: *.*

Look In Folder:

☑ Include Subfolders

Search Location:
☐ Appointments Database
☐ Contacts Database
☑ Email Messages
☐ File Contents
☐ File Names
☐ Pocket Excel (*.pxl, *.pxt)
☐ Pocket Word (*.pwd, *.pwt)
☐ Tasks Database
☐ Text Files (*.txt)

Screen 5: bFIND lets you search for files by name, or for files containing specific words, phrases, character strings or file names. You can search your entire memory, or specific locations in your memory.


My Handheld PC
The Internet
PEPID
Channels
BSQUARE bUSEFUL
Usage Watch
bUseful Launch
Recycle Bin
Office
eWallet
Flashnet
Data Backup
Storage Card
Remove Program
bProductive
eMD2
PC Link
Lexidrug
eSportsCard
Control Panel
TrueSync 2.0
Microsoft Windows CE
My Handheld PC
Recycle Bin
Control Panel
obgyn.net
Configure...
Help...
About...
Suspend
Exit
Start
BSQUARE bU...
bUSEFUL Ana...
7:55 PM

Screen 6: bUSEFUL Launch adds a user-configurable start menu, letting you access your most important applications quickly.

Windows CE device of the same type (H/PC to H/PC, etc.). A complete back up can be accomplished in a matter of minutes (depending on the number and size of your files). The files are automatically compressed by about 70% during the backup, minimizing the storage space required. I have used many Windows CE backup programs and bUSEFUL Backup Plus is by far the most complete, most configurable, and best one I have ever used.

bUSEFUL Analyzer (309k) Analyzer evaluates and analyzes every portion of your PC Companion's system, including CPU information, power management, video, battery life, and more. Analyzer evaluates using any of a number of industry-standard benchmarks, including Drystone, Whetstone, Bizstone, Graphstone, Thinkstone, Memstone, or a combination of all of the benchmarks (see Screen 2).

Analyzer can be useful when comparing various CE devices. This feature is an easy way to test the speed of your machine. This utility is useful to people who wish to compare Windows CE devices before purchasing (or reviewing) them. This analysis takes a while to complete. (I recommend using this utility while on AC power.)

bUSEFUL FindSpace (119k) FindSpace acts to identify and delete unnecessary files from your PC Companion (such as duplicate files, invalid shortcuts, temp files, cache files, etc.) When you uninstall a piece of software on your PC Companion, the process sometimes leaves pieces of the programs "lying around" taking up file storage space. Graphics and HTML files are saved in a cache when you browse the Web. And it's easy to save duplicate copies of the same document you're working on. FindSpace helps you find and delete unnecessary files, freeing up storage space in the process (see Screen 3).

If you have a large number of files, or a number of large files on your device, it can take some time to run FindSpace. The process can eat up battery life, so connect up to your AC adapter before you look for that extra space on your PC Companion.

bUSEFUL Script (185k) Script is a simple macro writing utility that allows you to automate routine tasks such as logging onto an ISP, retrieving e-mail, and more. You can easily learn the bUSEFUL Script language with the handy script editor that inserts common commands for you.

bUSEFUL List Plus (180k) This application can effectively replace the built-in Pocket Task application that comes with

bPRODUCTIVE

By Rich Hall

bSQUARE also released bPRODUCTIVE, a suite containing its most popular productivity applications. bPRODUCTIVE is available for the H/PC, the H/PC Pro and the Palm-size PC. The applications have been optimized for the screen size and input method of each device. The H/PC and H/PC Pro version comes with bFAX Pro, the Palm-size PC version comes with bFAX Express (see difference below). The package includes the following:

bFAX Pro (for H/PC and H/PC Pro only) - send and receive faxes from an H/PC or H/PC Pro that has a built-in modem or is using a standard PC or CompactFlash card fax/modem, (class 2 or 2.0). The program can send and receive text, bitmap, tiff, Pocket Word, and Casio Digital Camera files. bFAX Pro supports attachments to faxes.

bFAX Express (for Palm-size PC only) - send fax text (.txt), rich text format (.rtf) and bitmap (.2pb) files from a Palm-size PC equipped with a built-in fax/modem or using a Compact Flash fax/modem card. Includes fax preview function. Express supports attachments to faxes.

bPrint - print text (.txt), rich text format (.rtf) and bitmap (.2pb) files through the serial or infrared port of your PC Companion. You can cue documents for batch printing, and more. Includes print preview function.

bTRACK - an expense tracking program for the PC Companions that can fax or print reports using bFAX or bPRINT. bTRACK is customizable, with data input wizards to simplify input. Can also upload data directly to almost any corporate reporting system.

bMOBILE News - access Internet newsgroups via modem or through a connection to a desktop PC, and read and reply to news offline. Supports attachments, subject threading, message filtering, and more.

bREADY Viewer - view electronic texts or books on PC Companions. bREADY Publisher, sold separately, lets you create your own electronic texts.

bTASK - Navigate and close Palm-size PC applications quickly and easily.

bPRODUCTIVE retails for $79.99. Special pricing will be offered to anyone who purchases an individual application and then upgrades to bPRODUCTIVE. Demo versions of each of the applications can be downloaded at bSQUARE's Web site: www.bsquare.com/ .

bPRODUCTIVE is available through bSQUARE's online store (www.bsquare. com/development/products/Online_Store.htmx) or through major computer software retail stores. For more information, contact bSQUARE Corp., Phone: 888-820-4500 or 425-519-5900; E-mail: sales@bsquare.com; Web: www.bsquare.com/. ■

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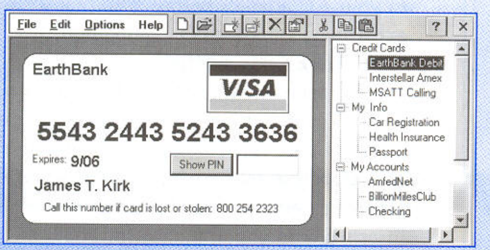

EarthBank
VISA
5543 2443 5243 3636
Expires: 9/06
James T. Kirk
Call this number if card is lost or stolen: 800 254 2323

Protect your credit cards, passwords, PINs, account numbers, and more with eWallet. Password-protected and encrypted. Award-winning software!

☑ Stop forgetting important business trip items, supplies, or info with ListPro. Make, use and reuse your lists, organize your notes and ideas.

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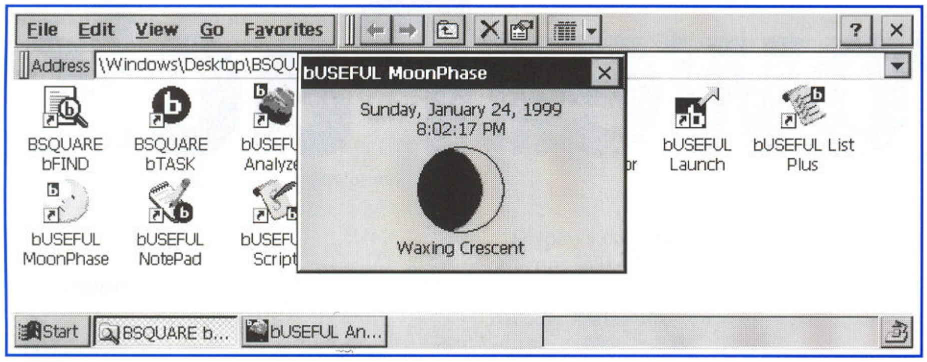
PLUS: Recordian, eSportsCard, game packages and more. Visit our website for handheld, palm-size and desktop software.

• • • *Try all our software absolutely free — get complete, 30-day trials from our website* • • •



Sunday, January 24, 1999
8:02:17 PM

Waxing Crescent

Screen 7: bUSEFUL MoonPhase displays the current phase of the moon (full, crescent, new) along with the date and time.

CE devices. With it you can easily create multiple lists with hierarchal items and sub items. bUSEFUL List Plus also provides project-tracking features, the ability to sort by importance, support for hyperlinks to Web sites or documents, alarms and more (see Screen 4). List Plus also lets you share lists with others via Infrared transfer.

bUSEFUL NotePad (92k) NotePad is a simple text editor - a quick and easy method for creating and editing text files. bUSEFUL Notepad opens and saves text in ASCII (text-only) format and in Unicode format on your Windows CE device. Its "Word Count" feature tells you the number of words in a document.

bFIND (104.2k) This is a much-needed global-find utility that lets you search the contents of your PC Companion for files by name or for files containing specific words, phrases, character strings or file names. bFIND lets you search your entire memory (including storage cards) or specific locations in your memory (Calendar, Contacts, Appointments, e-mail messages, and more - see Screen 5).

bUSEFUL Launch (132k) This cool utility adds a customized start menu (button bar) for fast access to your most-used programs. Launch also lets you navigate the file system, menus, and more. The Launch icon resides on the right side of the taskbar (a.k.a. "system tray"). Tap on the icon and a menu of applications pops up. Tap a selection to launch an application. Add whatever application you like to the menu. I am also in the process of testing Uniden's Palm-size PC and have discovered just how useful Launch is for Palm-size PC users. If you use a Palm-size PC you will love the functionality of this utility.

bUSEFUL MoonPhase (60k) This simple utility places an icon of the Moon on your taskbar. Tap the icon and the current phase of the moon (full, crescent, new moon) is displayed, along with the date and time (see Screen 7).

bTASK (31k) bTASK lets you navigate quickly between applications and close applications one at time or all at once. bTASK supports H/PCs and H/PC Pros, but is particularly useful on the Palm-size PC because there currently is no way to easily close applications on the device.

bUSEFUL HTML Editor Lets you edit HTML files from the convenience of a PC Companion. Create, edit and save HTML files (.HTM, .HTML) as well as Windows CE Help files (.HTC, .HTP). Includes "find and replace" function, wizards for tables, fonts, images, and anchors, support for selectable fonts and more.

bUSEFUL UUEncode Lets you convert files to ASCII for Internet transmission.

[NOTE: bUSEFUL HTML Editor and UUEncode were not evaluated by this author.]

I tested the bUSEFUL utilities on a Handheld PC, but all are available in H/PC Pro and Palm-size PC versions. The Palm-size PC versions of the utilities are optimized for the different size and orientation of the screen, and for the different input method. Of all the utilities in the package, only the HTML editor seems ill suited for the Palm-size PC. But it does have a lot of drop-down menus for entering HTML code.

I cannot give higher praise to bUSEFUL. It is a very functional, reasonably priced package with just about everything you'd ever need. As I mentioned earlier, it works with any Windows CE 2.0 or above device, including H/PCs, H/PC Pros, and Palm-size PCs. ■

Surerange

Windows CE software for Handheld and Palm-size PCs.

Conversion and Calculators...

- *Pocket Spreadsheet*
- *Pocket Convert*
- *Pocket Solver*

Language...

- *Pocket Spell*
- *Pocket Thesaurus*
- *Pocket Dictionary*
- *Pocket French*
- *Pocket German*
- *Pocket Spanish*

Games...

- *Planetoid*
- *FunPack 1*
- *FunPack 2*
- *Palm FunPack*
- *JimmyARK*
- *WarriorCE*
- *Solitaire Pack*
- *Palm Solitaire Pack*
- *Unicorn*
- *Pocket Plumber*

Utilities...

- *KeyMapPro*
- *ModPlayerCE*
- *Pocket Timer*

Pocket Database

View Windows CE textual databases in a list or card format.

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Immediate Download

CSI PowerPack

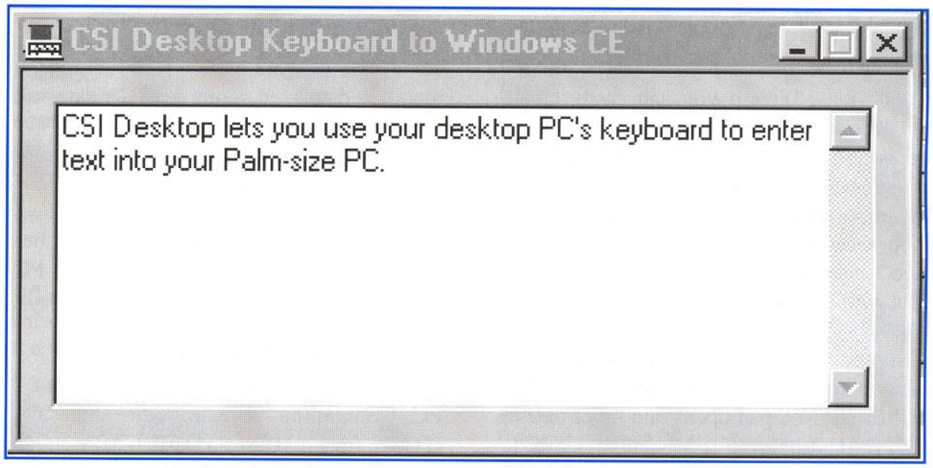
By Rich Hall

CSI PowerPack, from CASIO Soft, is a utility suite that adds a number of excellent features to Handheld and Palm-size PCs. Although the utilities work on any PC Companion, a couple of them seemed more valuable to Palm-size PC users.

Installation was a breeze. I connected my Casio E-10 Palm-size PC to my desktop and ran the CSI install program. PowerPack gives you the option of installing any or all of the utilities. Install them all at first and play with them. Then, delete the ones you don't think you'll use. *[TIP: If installation of any Windows CE software program fails, try rebooting your PC Companion and reconnecting it to your desktop PC. If it still doesn't work, try rebooting your desktop PC. If it still fails, call technical support.]*

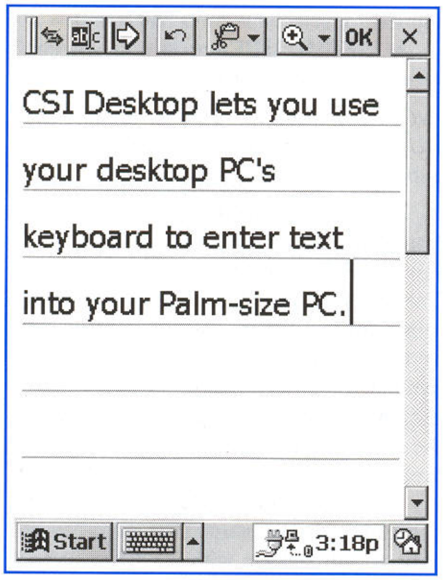
The CSI PowerPack includes the following utilities:

- CSI DeskType – This utility lets you use your desktop PC's keyboard to enter text directly into any H/PC or Palm-size PC. You must have your PC Companion connected to your desktop PC via cable and have Windows CE Services installed and running. Once DeskType is installed, you activate it from the Start menu of your desktop PC. A small text window appears on your desktop's screen. Click anywhere in the window and you're ready to enter text into your PC Companion (see Screens 1 & 2).



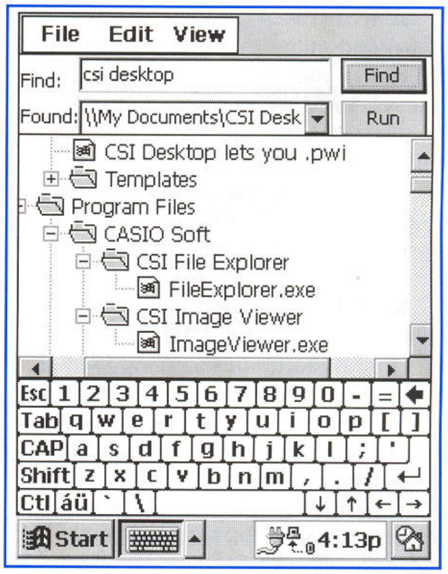
CSI Desktop lets you use your desktop PC's keyboard to enter text into your Palm-size PC.

Screen 1: Activate CSI DeskType from your desktop PC and a text-entry window pops up. Place your cursor in this window, type, and the text is entered into your PC Companion.



CSI Desktop lets you use your desktop PC's keyboard to enter text into your Palm-size PC.

Screen 2: Text entered into DeskType's window appears on your Palm-size PC (shown here) or H/PC.



Find: csi desktop

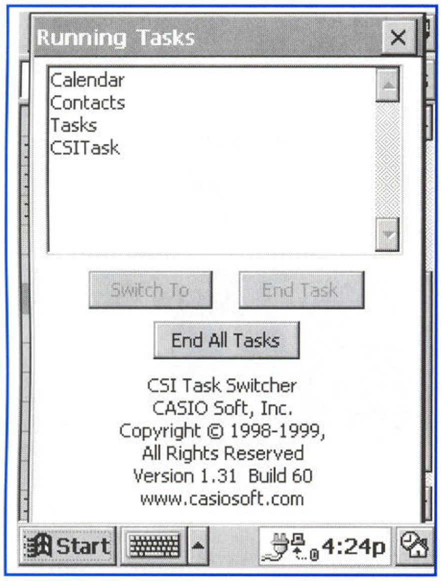
Found: \\My Documents\CSI Desk

CSI Desktop lets you .pwi

Screen 3: CSI File Explorer adds a file explorer to your Palm-size PC (shown here) or H/PC. You can search for files, open documents, and run programs from File Explorer.

You can't use DeskType to navigate on the H/PC or Palm-size PC. That means that you have to tap on the PC Companion's screen to open the appropriate application and go to the data field before you enter text. Likewise, when you are finished entering the text, you save documents, tap OK buttons, and close dialog boxes from the PC Companion. While you are entering text, you can press the backspace key to back-up over and delete text. But you cannot use your desktop PC's mouse to select and delete text on the PC Companion. As far as I can tell, you can use DeskTop to enter text into any application or dialog box that accepts text. Watch out pressing the ENTER key on your desktop PC. It will bounce you out of dialog boxes instead of moving you to the next data field.

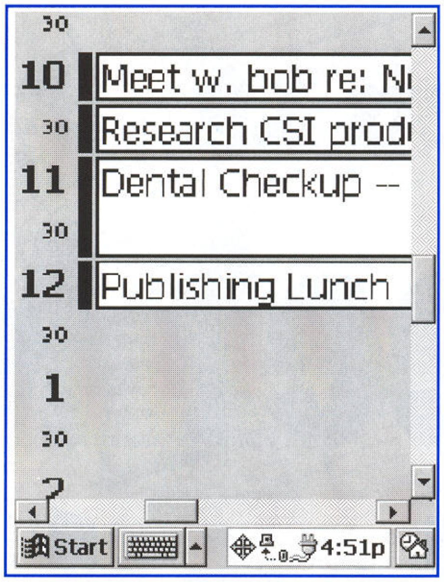
There was a fraction of a second delay between when the text appears in the window on your desktop PC, and when it is entered in the PC Companion. This was because I was working through a serial cable connection between my CASIO Cassiopeia Palm-size PC and desktop PC. It was noticeable, but did not get in my way, and I'm a relatively fast typist. Even with these minor limitations, DeskType is a great



Calendar
Contacts
Tasks
CSITask

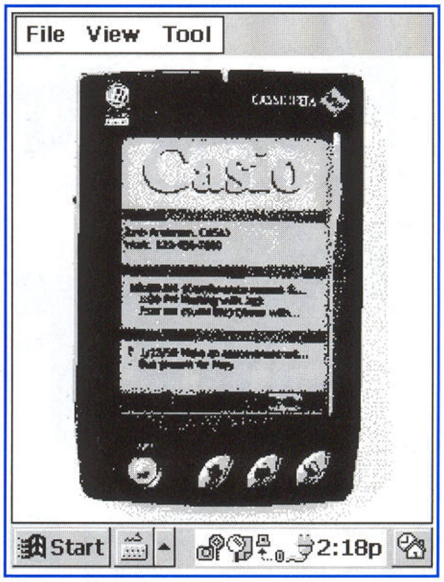
CSI Task Switcher
CASIO Soft, Inc.
Copyright © 1998-1999,
All Rights Reserved
Version 1.31 Build 60
www.casiosoft.com

Screen 4: The CSI Task Switcher main screen lets you select one of the open applications and switch to it, end it, or end all open applications.



30
10 Meet w. bob re: N
30 Research CSI prod
11 Dental Checkup --
30
12 Publishing Lunch
30
1
30

Screen 5: CSI Screen Zoom can magnify a portion of your PC Companion screen, making it easier to view data.



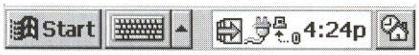
Screen 6: CSI Image Viewer lets you view bitmap, JPEG, and CASIO digital camera images on your PC Companion. Shown here is a bitmap image of the Cassiopeia E-10 Palm-size PC, displayed on the screen of an E-10 using Image Viewer.

enhancement if you spend much time at a desktop PC.

- CSI File Explorer – This utility adds a Windows Explorer-type application to your PC Companion. You can use it to find files by name and quickly view them. You can run applications or open documents in their application.

H/PC and H/PC Pro users have a built-in File Explorer. But existing Palm-size PC users do not. This application is particularly important to Palm-size PC users who keep a lot of notes or other files on their device.

- CSI Task Switcher - Switch instantly between open applications, or close unused applications. Installing Task Switcher places an icon in your system tray (an arrow symbol on a pile of pages, close to the time display).



Tap on the icon once and you switch between the applications that are open on your PC Companion. Tap and hold down on the icon and the Task Switcher screen comes up, letting you select one of the open applications and switch to it, end it, or end all open applications (see Screen 4). This application will be of some benefit to Handheld PC users, but of particular use to Palm-size PC users.

- CSI Screen Zoom - Enlarge your view of any portion of your PC Companion. For example, Screen 5 shows my Palm-size PC Calendar magnified at the lowest for four magnification settings, making it easier to check appointments.

Palm-size PC users can use the scroll function of the Action button on the side of the unit to scroll up and down the enlarged display. Press the center of the Action button to automatically step through the four magnification settings (1.67, 2, 3, and 4 times as big as the normal display). Tap anywhere on the screen to return to the normal display size. Handheld PC users can press the arrow keys on their device's keyboard to scroll up, down, left and right to navigate around the enlarged display. Press the Enter key to automatically step through the magnification settings, and return to your normal display.

Screen Zoom will be useful on either the Palm-size PC or H/PC to quickly magnify the size of a document, Task list, appointment Calendar, or Contacts list. This one has a lot of potential, but I had a little trouble scrolling around a magnified Palm-size PC screen, especially in Calendar. The Action button is fine for up/down scrolling, but Screen Zoom needs a way to quickly jump to the left of the Palm-size PC screen. I found that the only magnification size I'd want to use on the Palm-size PC is 1.67 or at the most 2. Magnifying the screen 3 or 4 times is too large for me. For future releases, I suggest that CASIO Soft replace the 4 option with something below 1.67.

- CSI Image Viewer – View bitmaps, JPEGs, and CASIO digital camera images directly on your Handheld PC or Palm-size PC. Image Viewer lets you enlarge or reduce a displayed image and convert between standard image formats.

Image Viewer lets you fit the image to the screen of the H/PC or Palm-size PC, or adjust the image size from 25% to 200% (or a custom size you create). You can save any opened file in Casio's CAM format, as a JPG, .bmp, .2bp, or UPF file.

- CSI Screen Capture - Captures any screen on your Handheld PC or Palm-size PC to a bitmap file. I used this utility to capture the CSI Image Viewer screen (see Screen 6). This is a handy utility for people who write about PC Companions.

I tested a pre-release version of the CSI PowerPack, so I can't comment on packaging. But I had no problems installing it or using it. I did have to consult the documentation file that came with CSI PowerPack to figure out how to use DeskType and a couple of the other applications.

All of the utilities in this package add power to your H/PC and especially your Palm-size PC. Screen Zoom, as is, is probably more useful on a H/PC because it's easier to scroll left and right. My favorite utility in this package was DeskType. I've always avoided text entry on the Palm-size PC. DeskType makes it easier to do this for a person who spends much of his time at a desktop PC. Again, this is a review of a pre-release package. I'll keep an eye on the production version to see if there are any changes.

The CSI PowerPack is the first piece of software I've reviewed from CASIO Soft, a former division of CASIO that was split off into an independent company a few months back. If PowerPack is any indication of their ability to develop useful Windows CE software, I look forward to their future offerings. ■

Pocket Streets 3.0

A Street Map in your Hand

By Craig Peacock

Pocket Streets is a street map program for those who find themselves frequently traveling in strange cities, or on unfamiliar roads. It lets you put away your fold-up maps, and download to your H/PC portions of street maps from Microsoft's desktop PC map programs, Expedia Streets, Mappoint and Trips 2000. It also works with Microsoft's U.K. street map program, AutoRoute Express GB 2000. Pocket Streets 3.0 is included with each of these Microsoft products.

Pocket Streets 3.0 supports Palm-size PCs, H/PCs with monochrome or color displays, and works with the new H/PC Pro class of handhelds. I have it installed on the HP Jornada 820 and the Sharp PV5000 and it works just great. (It also works fine on Palm-size PCs and Windows CE 2.0 Handheld PCs).

Installing and downloading maps

Pocket Streets 3.0 installs easily. Connect your H/PC to a desktop with Windows CE Services installed. Then click on the Pocket Streets install program and follow the prompts.

It's also easy to select and download maps. Open Expedia Streets on the desktop PC (see Screens 1& 2). Then, open the map of a specific city or geographical area. Use your mouse to click and draw a box around the area of the map you want to export to the H/PC. Then click on the right mouse button and select "Create Map for Pocket Streets" from the drop-down list and give the map file a name.

To download maps to your H/PC, make sure your H/PC is connected to your desktop PC. Start the Windows CE Services "Mobile Devices" application and open Explore. Then simply drag the map file you just created onto a folder on your H/PC. Remember that your H/PC has limited memory, so don't select huge portions of any Expedia Streets map.

Using Pocket Streets on an H/PC

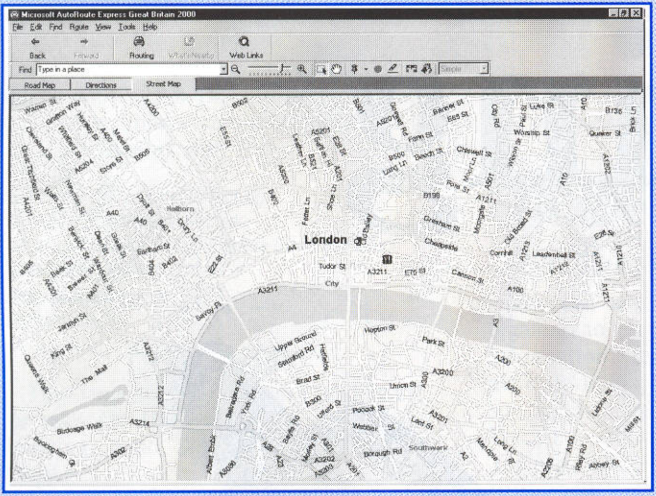
Start Pocket Streets on your H/PC, go to the File, Open menu, select the map you just downloaded, and you're ready to go (see Screen 3). You can search for streets, move around the map, and zoom in and out on a particular area (see Screens 4&5).

Expedia Streets and Pocket Streets let you place electronic "Pushpins" on the map, at a location of interest to you (see Screen 5). For example, you can place a pushpin by a client's address, along with the name of the client and a brief note. These pushpin entries are stored in a file that can be opened and browsed using the Pushpin Explorer. Double tap on any entry in the Pushpin Explorer and you go right to the spot on the map where entry is located.

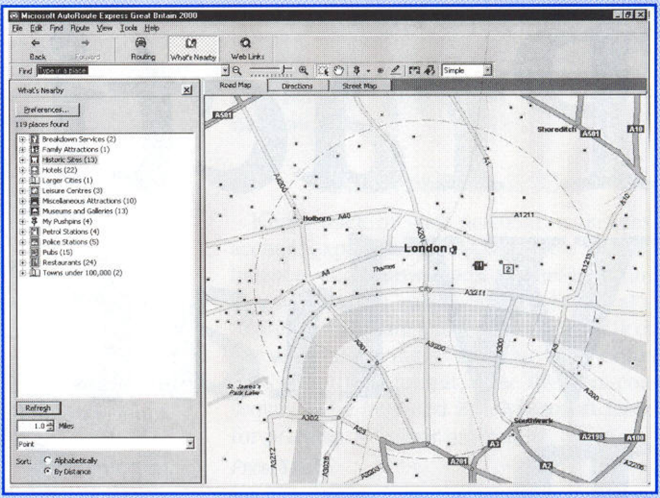
On the PC version of Expedia you can click on an area and then select the "What's Nearby" tab to get a list of all the restaurants, pubs (i.e., "bars"), historic sites, leisure centers, museums, petrol (gas) stations, and police stations. The UK map even shows a small, local coffee shop which only has 8 seats in it! Unfortunately, you can only access the Pushpins on the H/PC. I just hope a future version of Pocket Streets lets you copy some of this detailed information to your PC Companion.

Pocket Streets 3.0 cannot use map files created by previous versions of Pocket Streets. But you'll probably want to create new maps using the most up-to-date information found in Expedia Streets. If you have

Craig maintains and writes for two of the most popular Windows CE Web sites: www.palmpc.org.uk for H/PCs and www.craigtech.co.uk for Palm-size PCs. He has written a number of articles on Windows CE for U.K. publications and later this year will publish a book on Windows CE, to be titled Windows CE Made Simple (Pub. Butterworth Heinemman, Web: www.bh.com).


Microsoft AutoRoute Express Great Britain 2000
File Edit Find Route View Tools Help
Back
Forward
Routing
What's Nearby
Web Links
Find
Type in a place
Road Map
Directions
Street Map
London
Holborn
City
Tudor St
Cornhill
Southwark
Birdcage Walk
The Mall

Screen 1: Pocket Streets is a part of Expedia Streets and other Microsoft desktop PC map programs. Shown here is a section of the city of London, displayed on a desktop PC from Microsoft's AutoRoute Express Great Britain 2000.


Microsoft AutoRoute Express Great Britain 2000
File Edit Find Route View Tools Help
Back
Forward
Routing
What's Nearby
Web Links
Find
Type in a place
Simple
Road Map
Directions
Street Map
What's Nearby
Preferences...
Refresh
Shoreditch
Holborn
London
Southwark
St James's Park Lake

119 places found

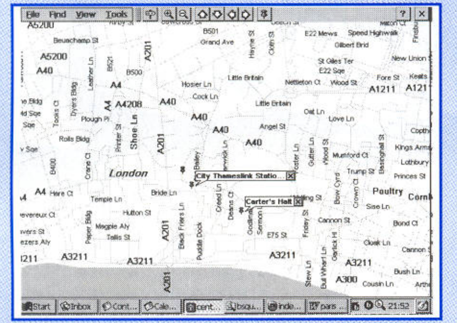
- Breakdown Services (2)
- Family Attractions (1)
- Historic Sites (13)
- Hotels (22)
- Larger Cities (1)
- Leisure Centres (3)
- Miscellaneous Attractions (10)
- Museums and Galleries (13)
- My Pushpins (4)
- Petrol Stations (4)
- Police Stations (5)
- Pubs (15)
- Restaurants (24)
- Towns under 100,000 (2)

1.0 Miles

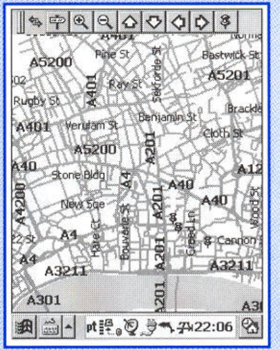
Point

Sort: ○ Alphabetically ● By Distance

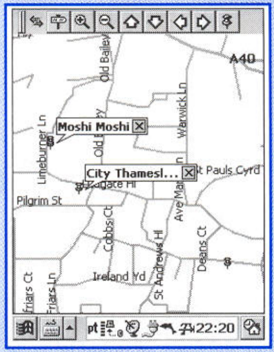
Screen 2: This desktop PC view from AutoRoute Express Great Britain 2000 shows how you can display points of interest on the map.


File Find View Tools
London
City Thameslink Statio...
Carter's Hall
Poultry
Start
Inbox
21:52

Screen 3: This screen shows Pocket Streets running on a full-screen H/PC Pro, displaying a portion of the map of London downloaded from the desktop PC.


A5200
Pine St
Bastwick St
A5201
Rugby St
A401
Verulam St
Benjamin St
Cloth St
Stone Bldg
New Sqe
A40
A4
A3211
A301
Cannon
22:06

Screen 4: This screen shows Pocket Streets displaying a portion of the map of London on a Palm-size PC.


Old Bailey
A40
Warwick Ln
Moshi Moshi
Lineburner Ln
City Thamesl...
St Pauls Cyrd
Pilgrim St
Cobbs Ct
Ave Maria Ln
Deans Ct
Ireland Yd
St Andrews Hl
Friars Ct
22:20

Screen 5: This screen shows Pocket Streets zooming in on a smaller section of the map of London on a Palm-size PC. Notice the custom "Push Pins" on locations important to the user.

been using an older version of Pocket Streets and Expedia Streets, you can import your custom Pushpins into the newer product.

The new version coincides with launches of new desktop Streets products from Microsoft, including AutoRoute Express Great Britain 2000, Expedia Streets, Trips 2000, and MapPoint 2000. They all allow you to select small sections of larger maps displayed on the desktop and export them to Handheld PCs and Palm-size PCs.

The Expedia Streets/Pocket Streets combination is great if you travel to unfamiliar cities. It will be priced in the $50-$70 range and will be available through Microsoft dealers. For more information, visit www.microsoft.com/expedia/. ■

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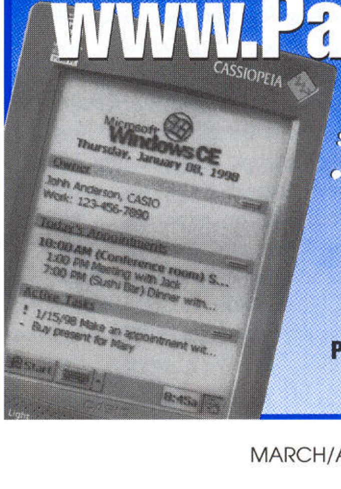
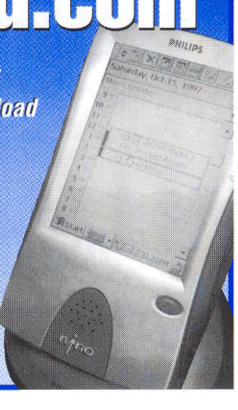
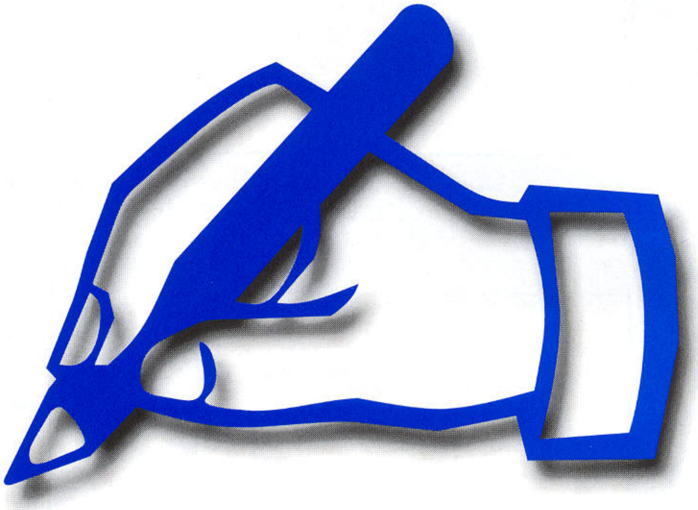

CASSIOPEIA
Microsoft Windows CE
Thursday, January 08, 1998



Practicing What I Preach

Rich Hall



His desktop PC down, our intrepid editor keeps right on editing this issue for you on his LG Phenom Ultra!

The truth is that I (the editor in charge of *Handheld PC Magazine*) do most of my work on a desktop PC. This includes writing and editing articles; using e-mail to stay in touch with contributors, vendors, manufacturers, and Microsoft; tracking articles in progress; tracking contact information; and researching Windows CE products and services on the Internet. Fortunately, a problem with my desktop PC forced me to do something I've wanted to try for a long time – use an H/PC as my primary computer.

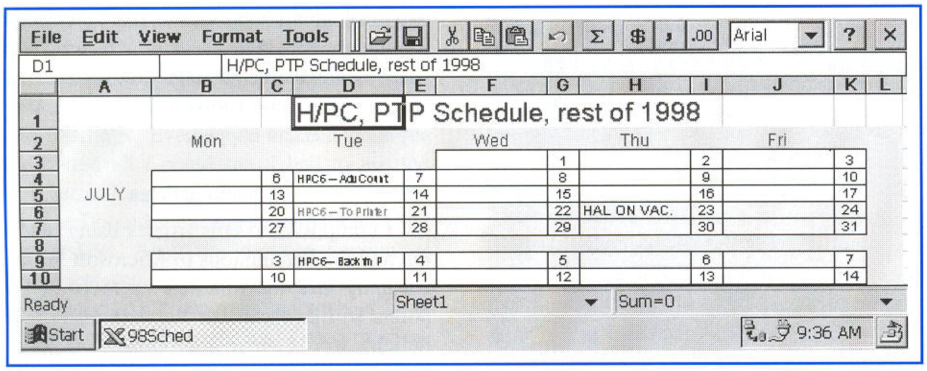
Until recently, I've avoided this because H/PC keyboards were not suitable for extensive text entry. You can do it, but you'd rather not. My attitude began to change with my reviews of NEC MobilePro 750C (see page 6, Jul/Aug 98) and the Hitachi HPW-200 EC (see page 9, Sep/Oct 98). Both of these H/PCs have relatively large, touch-typeable keyboards. When my desktop PC began acting up in the middle of writing the Phenom Ultra review a few months back, I decided the time was right. This article is based primarily on my expereinces with an LG Phenom Ultra, and an NEC MobilePro 750C. I do add some comments about the MobilePro 770 and 800 later on. Most of the points I raise apply to other H/PCs, and even Palm-size PCs.

Granted, life is easier on a desktop PC. But the question is, if I was a mobile professional, would any of the larger H/PCs or H/PC Pros do the job, or would I prefer a bigger, more powerful Window 95/98 notebook PC? Below is a task-by-task look at my experiences.

Using e-mail to stay in touch with the world

I was able to connect all of the H/PCs I mentioned up to my desktop PC and synchronize, so I did that each morning. I configured ActiveSync Options on my desktop to download e-mail messages from my desktop PC, as well as synchronizing contacts, calendar appointments and tasks. To save space on the H/PC, I configured ActiveSync to download only 50 lines of any message, and to not include attachments.

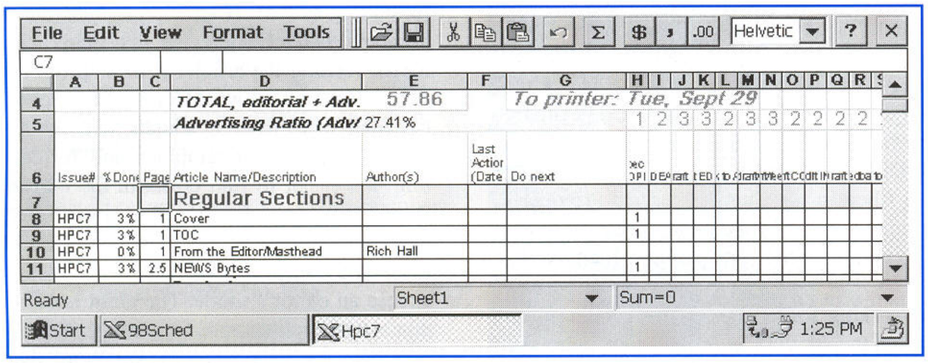
*[**TIP:** Configuring ActiveSync to download e-mail to your H/PC. Access the ActiveSync Options screen from the Mobile Device "Tools" menu. Then make sure the box titled "Message" is checked. To conserve space on your H/PC, limit the messages you download. With "Message" highlighted, click on the "Options" button to bring up the Inbox Synchronization Options screen. From here you can limit the number of lines of a message that will be downloaded to your H/PC. You can also limit*



D1 H/PC, PTP Schedule, rest of 1998

	A	B	C	D	E	F	G	H	I	J	K	L
1				H/PC, PTP Schedule, rest of 1998								
2		Mon		Tue		Wed		Thu		Fri		
3							1		2		3	
4			6	HPC6—AdvCount	7		8		9		10	
5	JULY		13		14		15		16		17	
6			20	HPC6—To Printer	21		22	HAL ON VAC.	23		24	
7			27		28		29		30		31	
8												
9			3	HPC6—Back fm P	4		5		6		7	
10			10		11		12		13		14	

Screen 1: I used Windows CE Services to copy the Excel spreadsheet with the yearly publishing schedule over to the Phenom Ultra. I changed the width of some of the columns and used the Zoom option in the View menu to adjust the display of the spreadsheet on the H/PC.



C7

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
4				TOTAL, editorial + Adv.	57.86		To printer: Tue, Sept 29											
5				Advertising Ratio (Adv/	27.41%			1	2	3	3	2	3	3	2	2	2	2
6	Issue#	% Done	Page	Article Name/Description	Author(s)	Last Action (Date	Do next	ec DPI	DE	raft	ED	to	raft	eft	Cdlt	In	raft	dba
7				Regular Sections														
8	HPC7	3%	1	Cover				1										
9	HPC7	3%	1	TOC				1										
10	HPC7	0%	1	From the Editor/Masthead	Rich Hall													
11	HPC7	3%	2.5	NEWS Bytes				1										

Screen 2: I copied my "Articles in Progress" spreadsheet to the H/PC. I use this to track articles for upcoming issues of *Handheld PC Magazine*. I deactivated the "Freeze Panes" option, adjusted column widths and abbreviated text on this spreadsheet.

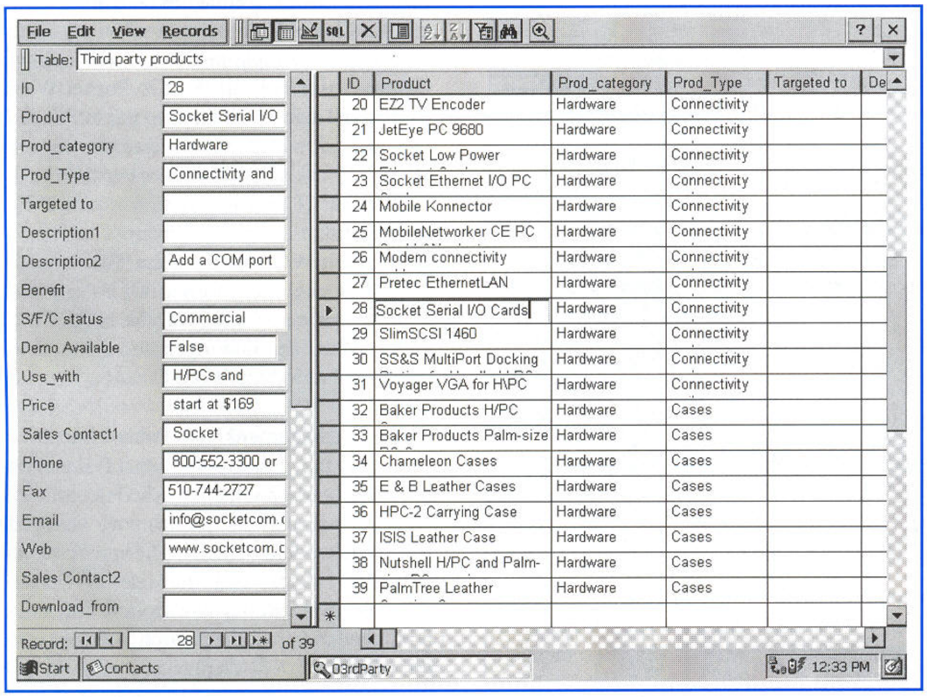


Table: Third party products

ID	28
Product	Socket Serial I/O
Prod_category	Hardware
Prod_Type	Connectivity and
Targeted to	
Description1	
Description2	Add a COM port
Benefit	
S/F/C status	Commercial
Demo Available	False
Use_with	H/PCs and
Price	start at $169
Sales Contact1	Socket
Phone	800-552-3300 or
Fax	510-744-2727
Email	info@socketcom.c
Web	www.socketcom.c
Sales Contact2	
Download_from	

ID	Product	Prod_category	Prod_Type	Targeted to	De
20	EZ2 TV Encoder	Hardware	Connectivity		
21	JetEye PC 9680	Hardware	Connectivity		
22	Socket Low Power	Hardware	Connectivity		
23	Socket Ethernet I/O PC	Hardware	Connectivity		
24	Mobile Konnector	Hardware	Connectivity		
25	MobileNetworker CE PC	Hardware	Connectivity		
26	Modem connectivity	Hardware	Connectivity		
27	Pretec EthernetLAN	Hardware	Connectivity		
28	Socket Serial I/O Cards	Hardware	Connectivity		
29	SlimSCSI 1460	Hardware	Connectivity		
30	SS&S MultiPort Docking	Hardware	Connectivity		
31	Voyager VGA for H\PC	Hardware	Connectivity		
32	Baker Products H/PC	Hardware	Cases		
33	Baker Products Palm-size	Hardware	Cases		
34	Chameleon Cases	Hardware	Cases		
35	E & B Leather Cases	Hardware	Cases		
36	HPC-2 Carrying Case	Hardware	Cases		
37	ISIS Leather Case	Hardware	Cases		
38	Nutshell H/PC and Palm-	Hardware	Cases		
39	PalmTree Leather	Hardware	Cases		

Record: 28 of 39

Screen 3: New to the H/PC Pro is Pocket Access. Users can create custom databases on the H/PC Pro, or download desktop Access databases. Shown here is a portion of our 3rd Party products database in Pocket Access.

download to only that e-mail received in the last few days (you enter the number of days). Finally, you can configure ActiveSync to include or not include file attachments.]

I also configured the H/PC to remotely connect to my Internet Service Provider so that I could download e-mail and browse the Web. This process is relatively simple, involving the creation of a new remote connection and physically connecting the H/PC to a phone line. Most of the newer H/PCs come with a built-in modem. If they do not, you can buy a PC or CF modem card. All I had to do was disconnect the line going into the phone and connect it to the built-in phone jack. Then I tapped the icon associated with the new "remote connection" I had configured and I connected without a problem (see sidebar, next page, for more on this process).

I read my e-mail using the InBox application. Most of the H/PCs I tested had 1/2 VGA screens, smaller than my desktop PC's. I had to do more scrolling to read messages. Still, the H/PC's Inbox is pretty functional and easy to use. I get three types of messages.

- Messages I trash immediately. ("Super on-line business opportunities," computer industry related press releases that I'm not interested in, and other SPAM). I can usually spot these from the Subject header and am not afraid to hit the delete key without opening them. Delete works just fine on the Phenom Ultra.
- Messages I answer. Questions from subscribers; remarks from contributing authors; PR and other announcements from Microsoft, PC Companion Manufacturers, and independent vendors. The reply button works just fine. While at the office, I'd synchronize periodically to upload e-mail replies.
- Messages I want to save. For example, an independent vendor may send me an announcement about a new piece of software for PC Companions. I'll want to save that so I can write up a product announcement for the next issue. Unfortunately, there is not a Save option in the Inbox File menu. I ended up cutting and pasting to a Pocket Word document. This requires selecting the text, cutting or copying it to the clipboard, toggling between Inbox and Pocket Word, pasting the text into the document, and saving the document. I look forward to the inclusion of a Save feature in a future version of Pocket Inbox, or the release of a good macro program to help automate the process.

I also compose messages from scratch and I don't like entering e-mail addresses. I can highlight a name in Pocket Contacts, access the Tools menu and select Send Mail

Create a New Remote Connection and Connect to Your ISP!

This tip describes the process I followed in creating a remote connection and accessing my Internet Service Provider. It will probably work in most cases, but if you have difficulties you'll have to talk with your ISP or MIS support person. Follow these steps:

1. From the Start menu select Programs, Communications, Remote Networking. Then double tap on the icon labeled "Make New Connection."
2. At the screen labeled "Make New Up Connection" give the new connection a name, select the option button labeled "Dial-Up Connection" and tap the button labeled "Next."
3. At the screen labeled "Make New Dial-Up Connection" select the modem you are using from the drop-down list (for the Phenom Ultra I selected "Internal Modem on COM5").
4. I did NOT tap the button labeled "Configure" to access the "Device Properties" screen. I went with the defaults.
5. I tapped the button labeled "TCP/IP Settings" and selected the tab labeled "Name Servers." I unchecked the box labeled "Server-assigned addresses" and filled in the Primary and Secondary DNS numbers (given to me by my Internet Service Provider). I then tapped "OK" to return to the screen labeled "Make New Dial-Up Connection."
6. I tapped the button labeled "Next." Then I filled in my Internet Service Provider's phone number (country code, area code and telephone number). I did NOT check the boxes labeled "Force long distance" or "Force local." To complete the configuration I tapped the button labeled "Finish."
7. This creates an icon in your Remote Networking folder. Physically connect your H/PC or H/PC Pro to a phone line using a modem and then double-tap on this new icon. You are presented with a screen labeled "Dial-Up Connection." Fill in your User Name and Password (and Domain if necessary, contact your ISP). Check the box labeled "Save password" and you won't have to fill in this information again. Then tap the button labeled "Connect." You'll hear the modem dial and you should connect to your ISP.

Mail Service Definition

At this point, you'll be able to start Pocket Internet Explorer and browse the Web. But there's one other thing you have to do to download e-mail: install Internet Mail service on your H/PC. To do this, follow these steps:

1. Open Pocket Inbox and select Options from the Compose menu. Select the tab labeled "Services" and tap the button labeled "Add."
2. Give the e-mail service you are creating a name and tap OK. A screen labeled "Service Definition (1/3)" will pop up.
3. Fill in the information requested on the screen. If you don't know it, ask your Internet Service Provider or MIS person.
4. You have the option of filling out two additional preference screens, but I accepted their default values and tapped the button labeled "Finish." I tapped OK to get out of the Options screen.

Now you're set to get mail. If you are already connected to your Internet Service Provider and launch Pocket Inbox, it will connect up to your ISP's mail server and get your e-mail (and download any messages you've composed and "sent"). If you're not connected to your ISP when you launch Inbox, it will ask you if you want to connect.

---

to Contact. I can also Open a new message in Pocket Inbox, access the Compose menu, choose the Address Book option, and find the e-mail address from the contact list. This is just as easy as the options in the desktop version of Outlook.

My desktop PC is connected to our ISP using a "T1" line, which is always connected to the Internet. When I hit Send on my desktop, the message is on its way. When I hit Send on the H/PC, it looks like the message is on its way, but it's really in the H/PC's "Outbox" waiting for me to connect to my ISP, or synchronize with my desktop PC. When I do connect, THEN it gets sent. I was wondering why a vendor hadn't responded to a message that I had sent two days previously, when I realized that I hadn't synchronized since "sending" the message. Remember that you have to connect to your ISP first before anything else can happen.

Editing and composing articles

I compose and edit articles using desktop and Pocket versions of Microsoft Word. I usually kick the font size up to 14 or 16 points so that I can see the text easily. I'll italicize words where appropriate, and specify titles, subtitles, graphics and captions. If I have an idea about how the layout should look, I'll leave a note in the document to the graphic designer. But I don't do additional formatting of text. If an author sends me a highly-formatted article, the first thing I do, before reading the article, is to strip out all of the formatting. I want to see what it looks like and hear what it sounds like before "improving" it with graphics and formatting. It's easier to find errors in the logical flow of an article, missing transitions, incomplete thoughts, etc., if you're not distracted by fancy fonts and cute icons. Please excuse an editor's tirade. The point is that I don't need sophisticated formatting capabilities, and the version of Pocket Word that comes with H/PCs and H/PC Pros, with the spelling checker, works just fine, thank you.

I usually have authors send me documents in Word format, as e-mail attachments. If I receive the document on my desktop PC, it's a simple matter to use Windows CE Service to convert these to Pocket Word format and download them to the H/PC. If I was downloading e-mail directly to my H/PC, I'd ask the author to save the document in .TXT or Rich Text Format (RTF), and send that as an attachment. That way I wouldn't have to convert the Word document to Pocket Word format. Of course, this is no longer a problem with the H/PC Pros. Pocket Word can now open and save documents in the desktop Word format.

Project management with Pocket Excel

I use the desktop version of Excel to track the yearly publishing schedule, articles I have in progress and products we've listed from independent vendors. The spreadsheets are very simple, and translate to Pocket Excel format without loosing any information. I had to adjust the column widths so the information would display properly on the the H/PC's screen. I had to make one other change with the spreadsheet that tracked articles in progress. The desktop version of this spreadsheet uses Excel's "Freeze Panes" option to keep the titles and column headings at the top of the display. When I transferred the document to the H/PC and displayed it in Pocket Excel, all that showed was the titles and headings. Even when I scrolled down, they were all I could see. I had to use the "Unfreeze Panes" option in the View menu so that I could view the information in the spreadsheet. Also, the desktop version of Excel lets you change the orientation of the text. In the article progress spreadsheet I had 13 very narrow columns and I used this feature to run the column headings vertically to keep the columns narrow. This feature is not available in Pocket Excel so I had to abbreviate the column titles and make the columns a little wider.

While I did not use the ActiveSync file synchronization with Word documents, I did use it with the spreadsheet that tracks the progress of articles. This changed on a daily basis, based mostly on e-mail I receive from the author. I ended up making changes to both the Excel and Pocket Excel documents, and needed to synchronize them.

Product research using the Web

Much of my product research is done on the Web. I regularly look at the following Web sites: Microsoft's Windows CE site; OEM sites (manufacturers of H/PCs, Palm-size PCs and Auto PCs); independent producers of software and accessories for Windows CE; Windows CE support sites; on-line sources of shareware and freeware for Windows CE. I also download newsgroup postings related to Windows CE. I had no problem connecting to my ISP and using Pocket Internet Explorer to browse the Web. However, many of the sites I visited are still designed for display on a desktop PC's 640x480-pixel screen. When displayed on and H/PC with a 640x240 screen, I ended up scrolling around more than was comfortable. Fortunately, I'm familiar with most of the sites and knew where to go on the site to get the information I needed. I did get to do a little Web browsing on the MobilePro 800 full screen. It was very nice.

Many H/PCs have built-in software modems that don't drain the batteries as much as a PC card or hardware modem. However, you should still connect the H/PC (or any PC Companion) to an AC adapter when you use a modem. The built-in and PC Card modems are reasonably fast (up to 56 kbps in the newer H/PC Pros). However, my desktop PC is connected to the Internet via our company network's direct T1 line. Browsing the Web is much faster on my desktop PC. I'll limit my use of an H/PC for Web browsing. I went to specific sites for specific purposes (i.e., to download product descriptions and check out news announcements). I also went to sites that I knew were formatted for the H/PC's display characteristics (i.e., Microsoft's Windows CE site at www.microsoft.com/windowsce/. Further, I disabled Pocket Internet Explorer's "Show Pictures" feature (open PIE, access the View menu, select the Options screen and uncheck "Show Pictures" box).

My use of the Calendar and Task features is rather straightforward and unsophisticated. I tend to track tasks associated with specific articles in the Excel spreadsheet I mentioned above. I'm in the habit of keeping other Tasks and Calendar appointments on the H/PC. It synchronizes with the desktop PC, but I rarely consult the desktop version of Outlook for this information.

The verdict!

I was surprised that I could almost use the 1/2 VGA H/PCs with larger keyboards as my only computer. It fulfilled my writing, editing, contact management, basic e-mail, and project management needs almost completely. Once I got used to the spacing of the keys, I could type quickly and easily. I carry the H/PCs with me in a fabric tote bag and I never got the low-battery warning.

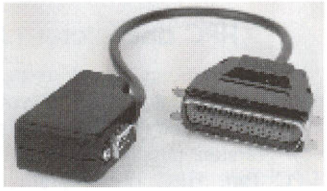
Still, I don't like downloading e-mail with large attachments to the H/PC, especially articles with embedded graphics files. I would prefer to do this on a faster desktop PC with a greater file storage capacity. I also would rather do my Web browsing on my desktop PC with a fast Internet connection.

Pros better for a mobile editor

My experience with the MobilePro 800 was even better. Its full-size color screen and fast 56 kbps makes it even easier (and more fun) to browse the Web. Pocket Word and Excel can now open and save in formats for desktop Word and Excel. This makes it easier to send and receive documents. Also, I find it much easier to edit a document if I can see more of it. I don't have to scroll around as much to find things. Finally, I like Pocket Access. We keep a very comprehensive Access database containing information about 3rd party vendors and the products they develop. It was very easy to drag that over to the MobilePro 800 and open it up in Pocket Access.

If I had to live on the road, and needed a lot of computing power, I might consider a regular notebook PC. But as long as my journeys are a couple days to a week long, I'd prefer a low-maintenance, light-weight Handheld PC. A full-screen H/PC Pro is better in my line of work, but I could get by pretty well with a 1/2 screen model. For my needs, H/PC Pros are definitely "Notebook Killers." ■

DIRECT ▶ MOBILE ▶ PRINTING ▶



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Products

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WWW.HPCMAG.COM
Your Gateway to
Windows CE!

The PC Companion Products listed here include hardware, software, publications, events, and developer services for Windows CE. Information about the H/PCs and Palm-size PCs themselves, and accessories sold by their manufacturers can be found in our "At A Glance" section on page 49. Prices listed are suggested retail price. Many software products are available for online downloading. Listings do not represent an endorsement by the editors. We have tried to include a comprehensive collection of products and services available by mid-February 1999. However, there will be gaps due to information not arriving by our printing deadline. If you have a product to announce in our next issue, please send an e-mail message to editor@thaddeus.com. For live links to the Web sites mentioned in this section, visit our Web site at WWW.HPCMAG.COM, *or purchase our CE InfoBase CD.*

Software

Communications

Ink Spot CE

Lets you download Net news to read later, on the train, waiting in line, or while someone else uses your workstation. Ink Spot CE will find messages containing a word or phrase in the subject or body of an article and download as many or as few messages as you want. There is no pre-set limit on the number of messages you can download, or the size of individual messages. You can download full headers or discard headers to save space.

You can reply off line and upload replies when you next connect. Unfinished replies can be edited later to preserve the calm, rational tone of your favorite news groups. Filter messages by sender or subject. Ink Spot is completely customizable. Set your news groups, fonts, signature, view settings and more.

Price: $25
Use with: H/PC and Ps/PC
Beta demo available at Tucows CE Monster: www.cemonster.com or developer Web site.
Developer contact: Déjà vu Software
E-mail: dejavu@martnet.com
Web: www.martnet.com/~dejavu/InkCE/index.html

SBM NE2000 Driver 1.0.2

Not all NE2000-compatible network adapters will work properly with the NE2000 driver supplied with the Windows CE Services CD. Every time you insert these cards into your PC Companion, the device asks for driver name. The SBM NE2000 Driver will ask the first time you insert the adapter and never again.

Price: $9
Use with: H/PC and Ps/PC
Download demo at Tucows CE Monster: www.cemonster.com or developer's Web site.
Developer contact: Softwarebüro Müller
Phone: +49 (371) 363079; Fax: +49 (371) 363081
E-mail: info@sbm.nu
Web: www.sbm.nu/

Database

HPC dbExplorer 1.3

HPC dbExplorer allows users to browse and manage databases on your mobile device powered by Microsoft Windows CE. New version supports H/PC, Ps/PC and H/PC Pro. HPC dbExplorer implements functions that are unavailable in Windows CE Explorer such as: Copy, Rename, Delete, Backup, Restore, Export as a CSV, and Transfer databases via IR.

Price: $19.95
Use with H/PC, Ps/PC, and H/PC Pro
Download demo from CE Monster: www.cemonster.com or developer's Web site.
Developer contact: PhatWare Corp.
Phone: 650-299-0110; Fax: 650-299-1369
E-mail: info@phatware.com
Web: www.phatware.com

Games/Entertainment

Speed Way

The Speed Way version 1.0 is a top view car racing game style. Nine racing cars are on the game. You goal is win the game by SPEED. (Speed Way does not work with all

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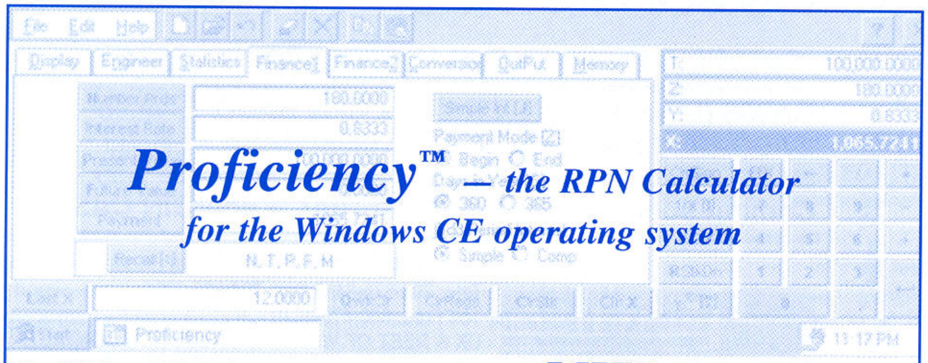

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http://www.mvasoftware.com

H/PCs and Ps/PCs. Download free test utility at www.jimmy.com/Software/dsa.html to see if it will work with yours.)

Price: NA
Use with: H/PC and Ps/PC (not all)
Download at developer Web site
Developer contact: Jimmy Software Developer Group
E-mail: jimmy@jimmy.com
Web: www.jimmy.com

PocketGoban

The Game of Goban for H/PC and Ps/PC. Includes Go Game Recording, Go Game Viewing, Auto Scoring, and Clipboard Copy.

Use with: H/PC and Ps/PC
Download at developer Web site.
Developer contact: Junji Masamitsu
E:mail: masamitu@usa.net
Web: member.nifty.ne.jp/masamitu/PocketGoban/index.html

Handwriting Recognition

BijiEditor 1.0 Beta

A NoteTaker-like editor able to process handwriting characters. BijiEditor can process mixed single and double byte characters and handwriting character in one text file - biji text file(.bij). A biji text files is highly compressed and can be exchanged between biji-enabled applications. Suitable for Far East language users and over the Internet. Windows CE and Win95/98/NT versions are available.

Price: $10
Use with: H/PC and Ps/PC
Download demo at Tucows CE Monster: www.cemonster.com or developer's Web site.
Developer contact: Biji Technology
Web: http://come.to/bijitech

Information Manager

HPC Customer Manager 1.0

You can use this business information organizer to keep track of customer contact information, including name, company name, address, phone and fax number, Web site address, reseller number and more. Track multiple contacts for each customer. You can also write notes for each customer, create your own user-defined data fields, search for a customer and export customer list to a text file.

Price: $24.95
Use with: H/PC
Demo available at Tucows CE Monster: www.cemonster.com and developer Web site.
Developer contact: Boma Software
Phone: 650-949-0767; Fax: 415-929-8717
E-mail: info@bomasoft.com
Web: www.bomasoft.com

PowerTerm CE 2.1

PowerTerm CE 2.1 is a remote access solution for handheld PC users who want to run "legacy applications," such as field force automation, accessing databases that run on systems such as an IBM as/400 or mainframe on the Windows CE. PowerTerm CE solution allows enterprise users to connect their mobile workforce to such systems using a handheld PC on the Windows CE platform.

Price: $99
Use with: H/PC (Ps/PC in the future)
Contact: Ericom Software- Dan Zarmi
Phone: 888-769-7876; Fax: 201-525-5499
Email: info@ericom.com
Web: www.ericom.com

BalanceBook 2.33

Keeps track of your personal or business account expenditures, calculates the account balance and allows you to enter future repeating entries - with a specified interval in months - which are updated automatically on the appropriate date. You can also export files to a *.TXT format, these files can consequently be imported into Microsoft Excel for printing or further processing.

Price: $11.95
Use with: Ps/PC
Download demo at Tucows CE Monster: www.cemonster.com or developer's Web site.
Developer contact: Gerben Roosenboom
E-mail: gerben_roosenboom@wxs.nl
Web: http://home.wxs.nl/~gjroos/home.html

HPC Notes 2.03

Synchronize Microsoft Outlook Notes with your mobile device! HPC Notes is a powerful notes organizer for your mobile device and Desktop PC. A new version of HPC Notes supports H/PC, P/PC and H/PC Pro. Many new features, including direct synchronization with Outlook Notes folder, email attachments, colored notes, and more.

Price: $49.95
Use with H/PC, Ps/PC, and H/PC Pro.
Download 30-days free trial from CE Monster: www.cemonster.com or developer's Website.
Developer contact: PhatWare Corp.
Phone: 650-299-0110; Fax: 650-299-1369
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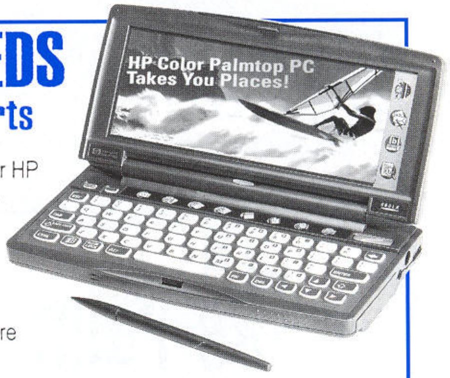

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Navigation

Route Planner

Route Planner will provide you with the best route meeting your own personal criteria. From destination to departure, through up to four stopovers. You can display any section of the road map at any scale, and at any level of detail. There are various ways of displaying location names, routes, legends, locators and scales. Similarly, you can display driving instructions in several formats and at several levels of detail. In the "split view" you can even follow your route graphically, on the map, as you go through the list of driving instructions.

Additionally Route Planner will allow you to add locations, and build collections of e.g., friends, or customers, or historical sites. You can assign names and coordinates to the numeric keys (0-9). The CD contains overlays for most countries, ranging from airports to toll booths to railway stations. Attach a Global Positioning System (GPS) device to your H/PC and Route Planner will put you on the map (provided it has NMEA 0183 version 2 output).

Price: $79.95
Use with: H/PC
Developer Contact: Palmtop BV
Phone: +44 (0)171 794 95 00;
Fax: +44 (0)171 794 95 99
Email: info@palmtopsoftware.com
Web: www.palmtopsoftware.com

Utility

CryptoGrapher 1.0 (Limited Edition)

Provides "super-resistant" data protection of the information kept on the flash cards (CompactFlash and PC Cards). CryptoGrapher encodes data each time the information is recorded onto the flash card, and decodes it each time the data is read.

Price: $39.95
Use with: H/PC
Demo available at:
http://paragon.mda.de/pdahpc/trynow.htm
Developer contact: Paragon Software
Phone and fax: +7 (095) 408-76-77 (Russia)
E-mail: msupport@paragon.ru
Web: http://paragon.mda.de/

HPC NetProfile 1.1

HPC NetProfile allows users to create multiple TCP/IP network profiles for each installed network adapter. This product was designed to use with H/PC, Palm-size PC, and H/PC Pro. With HPC NetProfile, it is no longer necessary to manually change the network settings every time you change location.

Price: $14.95
Use with H/PC, Ps/PC, and H/PC Pro
Download 15-days free trial from CE Monster:
www.cemonster.com or developer's Web site
Developer contact: PhatWare Corp.
Phone: 650-299-0110; Fax: 650-299-1369
E-mail: info@phatware.com
Web: www.phatware.com

HPC Spell 2.1

A new version of English Spell. It provides basic text editing functionality and allows users to check spelling, set spell checker options, and send email messages. The spell checker includes a large English dictionary containing over 90,000 words and supports one or more user-defined dictionaries. HPC Spell is also tightly integrated with HPC Notes.

Price: $24.95
Use with H/PC, Ps/PC, and H/PC Pro
Download 15-days free trial from CE Monster:
www.cemonster.com or developer's Web site
Developer contact: PhatWare Corp.
Phone: 650-299-0110; Fax: 650-299-1369
E-mail: info@phatware.com
Web: www.phatware.com

Power Supply Properties

Control panel that lets you easily configure your PC Companion. Features include: modify back-light settings for key or tap; modify power-off settings; simulate a total power drop for completely erasing the internal memory of a device without removing the main and backup battery; status shows the remaining capacity of the main battery in the battery icon; on install you can decide to replace the built-in control panel and power supply application or not. Comes with online help.

Price: $9
Use with: H/PC and Ps/PC
Download demo at Tucows CE Monster: www.cemonster.com or developer's Web site.
Developer contact: Softwarebüro Müller
Phone: +49 (371) 363079; Fax: +49 (371) 363081
E-mail: info@sbm.nu
Web: www.sbm.nu/

Fitaly Keyboard 0.99 Beta

An ergonomic replacement for the standard on-screen QWERTY "soft keyboard" of the Palm-size PC. The layout of the keyboard is optimized for pen entry.

Price: $25
Use with: Ps/PC
Download demo at Tucows CE Monster: www.cemonster.com or developer Web site
Developer contact: Textware Solutions
Phone: 800 355-5251 or 781-272-3200
Fax: 781-272-1432
E-mail: support@twsolutions.com
Web: www.fitaly.com/

Freeware/Shareware

Calculator

OpTrax 1.0

A stock option tracker that calculates vesting schedules. OpTrax is a shareware version for H/PCs running Windows CE 2.0. Try out the shareware version and if you feel this shareware is useful to you, please send us $15 to our address for a full-featured version.

Price: Shareware registration fee: $15
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com and distributor's Web site
Developer contact: Bn Ksoft
E-mail: info@bnksoft.com
Web: www.bnksoft.com

Tascal Gauge 0.20

Quickly convert to and from various units of measurement in terms of length, extent,

The Palm-size PC Store

Strictly Windows CE Palm-size PC Resource

www.Palm-size-PC.com

Software, Hardware, Accessories - ONLY for Palm-size PC's

measure, and weight.

Freeware
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com or developer's Web site.
Developer contact: Tascal Soft
Web: http://www2r.meshnet.or.jp/~tascal/index_e.htm

Communications

Palm Internet Suite

A comprehensive suite of Palm-size PC Internet utilities, including PalmFinger, PalmIRC, PalmKeepAlive, PalmLookup, PalmPing, PalmTrace, PalmWhois 1.0.

Freeware
Use with: Ps/PC
Download at Tucows CE Monster: www.cemonster.com
Developer: Unsupported Software Company

Windows CE Services 2.2

Upgrade of Microsoft's communications/connectivity utility that comes with all Windows CE PC Companions (installs on desktop PC).

Freeware
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com or OEM Web sites

Low Power Ethernet for Windows CE 1.0

The Windows CE v2.x driver in this release works with all PC Card and CompactFlash+ Card versions of the Socket Low Power Ethernet Card and offers several new features.

Freeware
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: Socket Communications
Phone: 800-552-3300 or 510-744-2700;
Fax: 510-744-2727
E-mail: info@socketcom.com
Web: www.socketcom.com

Database

Data for Windows CE

Create H/PC and Palm-size PC databases. Edit, amend and delete data record. Change, add and delete field labels and type. Supports field types, image and sound.

Freeware
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site.
Developer contact: Micro Cheng
Web: http://home.hkstar.com/~micro/english/cedata.html

obBASE 1.04

An object oriented database for Windows CE. Features include: Uses its own database, form editor on Windows CE & Desktop, automatic list view, built-in crypto-modul for sensitive data, easy to use, royalty free runtime module, also available in developer edition (source & headers).

Price: Shareware registration fee: $49
Developer version: $69
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site.
Developer contact: OBSOLUTION.COM
Web: www.interforum.ch/obsolution/

DBExplorer

Lets you View, Delete, and Rename CE databases.

Price: Shareware registration fee: $10
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site.
Developer contact: VCCE.COM
Web: www.vcce.com/sourcecode/dbexplorer/

Finance

PFMoney

Translates and copies a Money98 database from your desktop PC to your H/PC or Ps/PC so it can be used by Pocket Finance 2.0. This program does not synchronize Pocket Finance files with Money98. (More information about Pocket Finance can be found at www.landware.com.)

Freeware
Use with: H/PC and Ps/PC
Download demo at Tucows CE Monster: www.cemonster.com or developer's Web site.
Developer contact: AnyWare Consulting
Web: http://hometown.aol.com/anyware/wce/index.htm

Games/Entertainment

Minesweeper 1.0

To promote their Entertainment Pack Microsoft is giving away this free version of their familiar Minesweeper game.

Freeware
Use with: Ps/PC
Download demo at Tucows CE Monster: www.cemonster.com or developer Web site.
Developer contact: Microsoft

Dominoes 1.0

Interactive version of the popular game of dominoes.

Price: Shareware registration fee: $4.99
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com or developer Web site
Developer contact: Andy Green
Phone: +44 7071 880390
E-mail: info@omegaone.com
Web: www.omegaone.com/

Monkey Attack

Score as many points as possible by jumping over the falling monkeys and grabbing the money prizes.

Price: Shareware registration fee: $7

World #1:

Compact I/O Cards for PalmPC, Handheld PC

PRETEC
CompactModem
56K
PRETEC

- CompactModem 56K
- CompactSerial, CompactParalell, CompactScan
- CompactFlash™ 4MB-48MB
- ATA Flash cards 4MB-160MB, or 320MB (Type III)
- CompactLan 10BaseT/2

Internet: http://www.pretec.com

PRETEC

(Phone) 510-440-0535 (Fax) 510-440-0534
(Email) cardinfo@pretec.com

Use with: H/PC
Download at developer Web site
Developer contact: Andrew Mayer
E-mail: ewerd@erols.com
Web: www.erols.com/ewerd/mattack.html

Yotz 1.1

A Yahtzee-style dice game that runs on multiple platforms. For one price you get the Windows CE version for Handhelds/ Palm-size PCs, along with the Windows 95/98/NT version. Yotz has plenty of game options for variety and high scoring. Registered users get free lifetime upgrades.

Price: Shareware registration fee: $12
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com or Download at http://www.jlockwood.com/yotz.html purchase the regisetered version: https://www.Qwerks.com/order/buynow.asp?ProductID=1173>
Developer contact: John Lockwood Consulting
Email: johnl@calweb.com
Web: http://www.jlockwood.com/yotz.html

Kyle's Quest

A roll playing adventure game where you explore the land from a top view map in a rich graphical environment. Movement can be either from the keys or the stylus. As you explore, stop by one of the towns that dot the map to pick up much needed items, or talk to the locals to help you solve your quest. An important part of Kyle's Quest is inventory management. You must buy all the items you will need for your travels, such as weapons, armor, and healing potions. Not all the people you will encounter will be friendly. Usually the troubles that plague a land can be traced back to their source. In order to defeat the villain, you must use all the resources available to you. Featuring a Windows 95 level editor and over 8 different levels currently available.

Price: Shareware price: $15
Use with: H/PC and Ps/PC
Download at developer Web site
Developer contact: Kyle Poole
E-mail: kyle@kpoole.com
Web: www.kpoole.com/QuestCE

Pocket Sol 1.0

A standard one-deck solitaire game known as "Poker Solitaire", "Poker Squares", or "Poker Patience".

Price: Shareware registration fee: $12.95
Use with: H/PC, Ps/PC and H/PC Pro
Download demo at Tucows CE Monster: www.cemonster.com or developer Web site
Developer contact: Moose Software
E-mail: info@moosesoftware.com
Web: www.moosesoftware.com/

Pockblock

Enhanced version of the famous game with falling blocks! Includes slick-looking interfaces and game-screen; fast drawing-routines; area in which pieces fall is resizable; the pieces themselves are resizable; supports graphics plug-ins for your own-drawn blocks (CoolGlasses plug-in already included); supports skin plug-ins to fill those empty areas on the game screen with a nice backdrop; support sound effects plug-ins for your own-made sounds (Science-fiction plug-in already included); separate high score-table for each area-size; frame rate test built-in for comparing speeds of machines running PocketC; Pockblock Help available in-game. You need the runtime version of PocketC v1.26 (www.orbworks.com) or better installed on a Windows CE 2.0 H/PC.

Freeware
Use with: H/PC
Download at developer Web site
Developer contact: MvR
Email: rheenen@angelfire.com
Web: www.angelfire.com/ma/rheenen/

PalmSweeper 1.0

The classic mine sweeping game. Explore the minefield and flag all the mines without treading on one. Displays on monochrome or color screens and has sound effects.

Freeware
Use with: H/PC
Download for free at developer Web site
Developer contact: Palmtop BV
Phone: +44 (0)171 794 95 00;
Fax: +44 (0)171 794 95 99
E-mail: info@palmtopsoftware.com
Web: www.palmtopsoftware.com/

Die Caster 0.9b

A PocketC utility for role players or anyone who needs to use dice. It will roll 4, 6, 8, 10, 12, 20, and 100 sided dice at the same time. It will also allow you to roll up to 6 dice at a time, showing totals and each die rolled. It has a lot of other options as well. The download file also includes the PocketC (www.orbworks.com) runtime module.

Freeware
Use with: H/PC
Demo available at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: TCS Software
E-mail: tristans@altavista.net
Web: http://home.earthlink.net/~tristans1/html/die_caster.html

Jewel

Similar to GameBoy's Dr. Mario. You must match up blocks and gems to clear lines, which in turn boost your cumulative score.

Freeware
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com
Developer contact: Toy Box
Email: skimoto@nsknet.or.jp
Web: www.nsknet.or.jp/~skimoto/ (Japanese site)

Handwriting Recognition

WerdJot

Werd Jot is a handwriting recognition program made for Windows CE devices. Using the handheld pen, simply draw print characters on the screen and they are instantly transcribed. Once a note has been written, you can copy the text into another application or save and load files from within WerdJot.

Price: Shareware registration fee: $7
Use with: H/PC and Ps/PC
Download at developer Web site
Developer contact: Andrew Mayer
Email: ewerd@erols.com
Web: http://www.erols.com/ewerd/werdjot.html

Information Manager

Pocket Pedigree 1.0 Beta 4

A genealogy program that lets you enter

Find Force is a search utility that lets users find files on their H/PCs. Find Force lets users search for files within their folders and subfolders using wildcard expressions, test strings and other common search criteria.

FEATURES

- Support for wildcard characters
- Customized search options based on date, file size etc.
- String based search options
- Launches associated files from within the search window

$19.95

Works with Windows CE 1.0 and 2.0

Available at: http://www.ruksun.com or E-mail: info@ruksun.com

Ruksun Software Technologies
http://www.ruksun.com

FIND Force

individuals' basic information (i.e. name, birth date & place, christening, death, burial, and LDS information) and export it to a GECOM file.

Freeware beta
Use with: H/PC
Download demo at Tucows CE Monster: www.cemonster.com

PowerGizmo Information Managers

9 personal and business applications for the Windows CE and PalmPilot family of products.

CDGizmo - Records and organizes a personal audio CD library

DiaryGizmo - Stores, categorizes, and dates personal diaries

GiftListGizmo - Manages gift lists and cards for special occasions, for family and friends

GroceryGizmo - Manages a grocery list and becomes a check-list at the grocery store

HouseHuntGizmo - Records and compares real estate information for prospective home buyers

MeetingGizmo - Manages all pertinent information associated with meetings

MessageGizmo - Electronic message pad

MortgageGizmo - Records, tracks, and compares mortgage rates for prospective home buyers

VideoGizmo - Records and organizes a personal video library

Price: call or check Web site. Purchase online.
Use with: H/PC and Ps/PC
Contact: PowerGizmo™ Technologies
Phone: 248-299-9230; Fax: 248-852-9226
Email: info@powergizmo.com
Web: www.powergizmo.com

Outliner 1.0 Beta One

A personal organizer that lets keep hierarchical lists of all things you have to do or get. Features check lists and easy drag and drop arrangement.

Free beta version
Use with: H/PC and Ps/PC
Beta available at Tucows CE Monster: www.cemonster.com and developer Web site.
Developer contact: Footprint Software
Phone: + 49 6171 583101; Fax: + 49 6171 583109
Email: footprint@econsult.de
Web: www.econsult.de/footprint/projects.htm

ShopList 1.0

Track shopping lists and check things off as you put them in your shopping cart.

Freeware
Use with: Ps/PC
Download at Tucows CE Monster: www.cemonster.com or developer Web site
Developer contact: Palm-size.com
E-mail: sjudge@palm-size.com
Web: www.palm-size.com/index.html

BigClock 1.0

Displays current system time in big digits on your Windows CE 2.0 PC Companion. BigClock lets you set alarms via a user-friendly dialog box.

Freeware
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: Richard Grimes
E-mail: rtg@grimes.demon.co.uk
Web: www.grimes.com

Reference

First Words In Hand 1.0

Designed by an experienced business traveler, First Words In Hand avoids overloading you with many different possible phrases. Instead, it gives you the most common and essential phrases, with their phonetic spelling, from English to eight different languages, including French, German, Italian, Polish, Hindi, Greek, Spanish and Japanese. Each language comes in a separate module and you can save space on your PC Companion by installing only the language(s) you need. An audio clip is included so you can hear how the phrases are supposed to sound. Also includes cultural clues for the area where each language is spoken and the ability to add your own custom phrases.

Price: Shareware registration fee: $20
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: Burr Oak Software
E-mail: info@burroak.on.ca
Web: www.burroak.on.ca/

Handybook

A vertical electronic text or book reader for Handheld PCs. Fast screen handling. Supports Unicode. Bookmarks. Switch page orientation.

Price: Shareware registration fee: $24.95
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com and developer's Web site
Developer contact: Keiren Net Technology & Consultancy
E-mail: info@keiren.net
Web: www.keiren.net/handybook

Special Input

Palm-Cad 1.0

Computer Aided Design package for the Palm-size PC. Included utility lets you save Palm Cad documents in .DXF format, which can be used with programs such as Autocad and Wincad. When you open a DXA-File you can Dynamically Pan and Zoom directly to where you want. All functions can be executed in one pick from the Menu.

Windows® CE
Pilot, Geos, Newton & Zaurus

✓ Custom Development
✓ Messaging Applications
Virtual Courier™ – cc:Mail
MS-Mail/Exchange connection.
Exchange forms & Lotus Notes
✓ International Porting

MicroBurst, Inc.
15732 CRABBS BRANCH WAY, SUITE 200
ROCKVILLE, MD 20855
PHONE (301) 330-2995
FAX (301) 330-8609
E-MAIL: markf@mburst.com
WEB: www.mburst.com

Standard display controls include Pan, Zoom Window and Zoom Limited. Set of Input and Editing Tools includes Move; Delete; Edit Coordinates; Input North, South, East, and West; Direction; Input Absolute and Relative Coordinates; Input Absolute and Relative Angles; Input with the Pen.

Price: Shareware registration fee: $49
Use with: Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: InterFox
Phone: +0049 -351-8587801
E-mail: service@interfox.de
Web: www.interfox.de/html/palmcad1.htm

Utility

SkyCommander 0.99d

Turns your H/PC into a Universal Remote Controller for all your consumer appliances like TVs, VCRs, Air Conditioners, Disc Players, etc. SkyCommander makes use of the built-in IrDA port on your HP Handheld PC to emulate and store commands from your appliances' remote controllers, and hence enables you to remotely control multiple appliances using your HP Handheld PC. NOTE: Only works with Windows CE 2.0 H/PCs with SH3 processors (HP 660LX; HP 620LX; HP 360LX; HP 320LX, Hitachi HPW-200EC, LG Phenom Express and Phenom Ultra, Novatel Wireless CONTACT, Ericcson M16, and other SH3 H/PCs).

Freeware
Use with: H/PC (SH3 only)
Download at Tucows CE Monster: www.cemonster.com

Protect Your Handheld Investment

The RhinoPak 1000 is now available to Palm-size PC owners. Features include a weather resistant Cordura outer, interior padding, plastic insert screen protector, elastic securing straps, and belt loop. Inside/outside mesh pockets are ideal for pens, business/credit cards, cash, etc. **Black....$26. 95**

The acclaimed **RhinoPak 2000** "sport-ute" case for is ideal for all H/PC's with dimensions of 7.25"x4.25"x2". Features include a weather-resistant Cordura outer, padded interior, battery pouches, and pen/stylus holder. Utility pockets inside and out accommodate checkbook/passport, disks, credit/business cards, and car keys. Ideal for the user who needs his/her handheld in the office one day, on the road the next, and in the backcountry on another. **Black....$49.95**

Also available: RhinoPak 3000 for larger H/PC's, including the HP 660LX, and Executive Stylii for Palm-size PCs

rhino•skin

(307)734-8833 Fax: (307)734-8868
e-mail: info@rhinoskin.com
URL: http://www.rhinoskin.com

IrCopy & IrSync

Two programs that let you transfer or synchronize data between PC Companions via IrDA ports. Add infrared jobs to your queue and transfer all the files at any time.

Freeware
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com and distributor's Web site.
Distributor contact: Mobile Computer Software Gallery
Web: www.oohito.com/ (Japanese language site)

Balloon

Test the speed of your machine by adding animated balloons that float across the screen.

Freeware
Use with: H/PC
Contact: Tucows CE Monster www.cemonster.com

CardRunner

Lets you put programs on your PC Card in the startup folder.

Freeware
Use with: H/PC
Download at: Tucows CE Monster www.cemonster.com

Word Count 1.0 H/PC PRO

Gives you a quick count of the number of words you have in a Pocket Word document.

Freeware
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com

LaunchKey

A utility program to create keyboard shortcuts to programs you use a lot.

Price: Shareware registration fee: $5
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: Bn Ksoft
E-mail: info@bnksoft.com
Web: www.bnksoft.com

PTravelAlarm 1.0

Turns your Palm-size PC into a fully-functional travel alarm clock.

Price: Shareware registration fee: $12.50
Use with: Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: Burr Oak Software
E-mail: info@burroak.on.ca
Web: www.burroak.on.ca/

dTree 1.2b

File manager that displays Windows CE directory in a tree view, making it easy to copy and move files around on any Palm-size PC. Lets you select a file and beam it to another device via the IrDA port. Select applications and create links to your Start menu, or tap application file to start the application. Multi language and Pocket-UNzip support.

Freeware
Use with: Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer's Web site
Developer contact: Christian Czech
Phone: +49 7745 9208-0; Fax: +49 7745 9208-17
Email: support@derago.com
Web: www.derago.com

DCharge

Enable and disable the charging of your Handheld PC's batteries.

Freeware
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com
Developer contact: D-Collections
Email: yasuos@dcollections.com
Web: www.dcollections.com/ (Japanese site)

DBench

Test the speed of your Handheld PC by performing tests on it. No comparison statistics provided.

Freeware
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com
Developer contact: D-Collections
Email: yasuos@dcollections.com
Web: www.dcollections.com/ (Japanese site)

DeskNavi

A Windows Explorer type file manger program for Palm-size PCs.

Freeware.

Use with Ps/PC
Download at Tucows CE Monster: www.cemonster.com
Developer contact: D-Collections
Email: yasuos@dcollections.com
Web: www.dcollections.com/ (Japanese site)

AppLert 99 1.0

Lets the user set the H/PC to launch an application at a specific date and/or time in the future. This can be used to force the H/PC to turn on a specific time and/or date.

Freeware
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com
Developer contact: Graham Taylor

Web: www.taylord.freeserve.co.uk/

SpaceHogCE 2.5

A simple utility that lists every file on your H/PC sorted by size. Using SpaceHogCE you can quickly determine which files are hogging up all the space and delete them without having to go find each file in its folder.

Price: Shareware registration fee: $13
Use with: H/PC, Ps/PC, and H/PC Pro
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: Grundle Software
Email: info@grundlesoftware.com
Web: www.grundlesoftware.com/

BugMe!

A sticky-notes-type reminder for your PC Companion. BugMe! lets you quickly jot a note, then set an alarm for when the note should pop-up and bug you to do what you need to do.

Price: Shareware registration fee: $14.95
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: Haus Of Maus!
Email: iain@hausofmaus.com
Web: www.hausofmaus.com/

HKKey

Utility that lets you connect your H/PC to a Newton keyboard. You also need the appropriate cables and adapters. (PIN diagram on developer Web site.)

Freeware
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com and developer's Web site
Developer contact: Hiraide's Windows CE Lab
E-mail: hiraide@tt.rim.or.jp
Web: http://www.tt.rim.or.jp/~hiraide/hpc/ (Japanese site)

WinCE Virtual Explorer

File manager for your Windows CE based Palm-size PC. You need this since there is no way to change or view the virtual file system on the Palm-sized PCs without a host system (PC) accessing it. Navigate your storage cards. Modify the files and directories directly.

You NEED the updated Microsoft MFC DLL 2.01 to use this program! NOTE: this product is in early BETA; some of the features are not yet implemented.

Freeware beta
Use with: Ps/PC
Download from developer Web site
Developer contact: Leech Software
E-mail: info@leechsoftware.com
Web: www.leechsoftware.com/virtual_explorer/

BatteryState

Tracks the amount of time a set of batteries have been in use. This program was written because the built-in utility for tracking the batteries is zeroed out when you do a soft reset.

Freeware
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: My Own Software
Email: thorsten.lambrecht@bigfoot.de&subject=batterystate_for_SH3
Web: www.gis.net/~thorsten/windowsce.html

Descrypt

Lets you encrypt and decrypt any files on your PC Companion using 64-bit DES algorithm.

Freeware
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: My Own Software
Email: thorsten.lambrecht@bigfoot.de&subject=batterystate_for_SH3
Web: www.gis.net/~thorsten/windowsce.html

Software Utilities

Three different utilities allow you to better control your handheld and know information about it. Use Date/Time to insert time and date stamps into documents; Memory Status tells you how much memory is free; Application Runner lets you quickly access your favorite files.

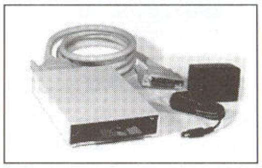
Freeware
Use with: H/PC
Download at Tucows CE Monster: www.cemonster.com or developer Web site
Developer contact: Panoramic Software
Web: www.panoramic.com/

StarTap

StarTap adds to your Palm-size PC a Windows-like desktop that was missing on the production model. You can create shortcuts to files, arrange them in folders on a desktop with wallpaper behind them, click on icons to switch between programs that are running, and browse through the files on your "disks" and more. StarTap's desktop has the

Card-Link

for SRAM and ATA flash memory cards



Why struggle with cables? Transfer files the quick and easy way by adding a memory card slot to your desktop PC.

- ➪ Works like a floppy disk drive
- ➪ Connects to a desktop parallel port

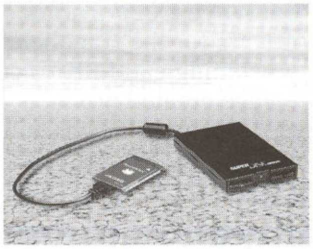
$179.95 Model CL680 for Type I and Type II cards
189.95 Model CL683 for Type I, II and III cards
199.95 Model CL682 has 2 slots for Type II

We carry adapters for compact flash cards.

Steele Creek Technologies, Inc.
14035 Appling Lane, Charlotte NC 28278
Phone or Fax (704) 588-1780
Find latest drivers at www.cardlink.com

Travel 120™ PCMCIA LS-120 SuperDisk™ Drive
Now Available for Windows® CE!

Now enjoy the benefits of the same drive as desktop and notebook users! Use it with standard 3.5" 720 Kb and 1.44 Mb diskettes. Or with 120 Mb SuperDisk diskette media. Eliminate the need for connectivity kits and a notebook or desktop PC, just to transfer files to another diskette or hard drive. Use it to download large files from the Internet, run large graphics presentations, transfer files between your H/PC and notebook or desktop computer, and even to run or load programs from a floppy. Save costly space on your compact flash and PC memory cards, or free up system memory on your H/PC. Carry it anywhere. It's small enough to fit in your jacket pocket!



Compatible with Windows CE 2.0, Windows 95 and 98, Windows NT, Windows 3.X and DOS - use it with all of your computers.

ACCURITE® TECHNOLOGIES INC.
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Fremont, CA 94538-6532 USA

Tel: (510) 668-4900
Fax: (510) 668-4905
Web: www.accurite.com
Email: travel120@accurite.com

familiar Windows Recycle Bin, Control Panel, and Explorer. In Explorer, you can Cut and Paste files, or just drag them from where they are, and drop them where you want them to be. StarTap even has a built-in image viewer. Double tap on a bitmap file and a window pops up to display the image.

Price: Shareware registration fee: $10
Use with: Ps/PC
Download demo at Tucows CE Monster: www.cemonster.com or developer's Web site
Developer's contact: Thumbs Up Soft
Phone: 1.800.546.5799; Fax: 1.619.296.8473
E-mail: info@thumbsupsoft.com
Web: www.thumbsupsoft.com/

Developer Software

DStore 4.0

A low memory consuming ISAM database library. This library was written in C++ and has to be compiled and linked using Microsoft Visual C++ 5.0 (or higher) with Windows CE SDK. DStore supports the following column types: Byte, Text (UNICODE/ASCII), Integer (16 bits number), Long (32 bits number), Float, Double, Date (internal date ,format), Time, Logical, Memo. DStore supports text and or binary memo files up to 4GB long. DStore is 100% Year 2000 compliant. DStore supports international sort orders. DStore supports the data file saved in either RAM storage and/or Storage Cards. DStore occupies less than 50Kb in your program.

Freeware
Use with: H/PC and Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
E-mail: cervenr@usa.net
Web: www.geocities.com/SiliconValley/Garage/1741/dstore.html

DelC - IDE for PocketC

An intergrated development environment for developing PocketC applications on your Windows 95/98/NT PC. Includes these features: Form designer for Palm-size and Handheld PC units. Event code editor. Custom function editor. Menu designer (and event editor). Requires Pocket C (at www.orbworks.com).

Price: Shareware registration fee: $24.95
Use with: Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site
Developer e-mail contact: sodov@tig.com.au
Web: http://homepages.tig.com.au/~pcdz/delc/delc.htm

Visual Form Buddy 2.01b1

A form builder for Use with: the PocketC language. Visual Form Buddy dynamically generates source code to use in your PocketC (www.orbworks.com).applications. It uses a very simple interface with drag and drop support and sizeable controls.

Price: Shareware registration fee: $15
Use with: H/PC, and Ps/PC
Download at Tucows CE Monster: www.cemonster.com and developer Web site.
Developer E-mail: cory@krugsoft.com
Web: http://www.krugsoft.com

Registry Explorer 1.0

Lets you edit the registry in the Windows CE environment. View or change Registry, drag-and-drop or copy-and-paste for the entire key.

Price: Shareware Online registration is available at $9
Use with: H/PC Windows CE v2.0 and above Handheld PCs - MIPS, SH3 Palm-size PCs - will be available soon
Full functional version is available for downloading
Contact: AstroSoft Ltd.
Phone/Fax: +7 (812) 327-4400 (Russia)
E-mail: rexce@astrosoft.ru
Web: www.astrosoft.ru/rex

NGDemo

A six-in-one graphics demonstration test for H/PCs. See how well your H/PC handles the graphics! The new beta handles direct screen access, which enhances performance.

Freeware
Use with: H/PC to Development Section.
Demo available at Tucows CE Monster: www.cemonster.com and developer Web site
Developer contact: Panutat Tejasen (Jimmy)
E-mail: jimmy@jimmy.com
Web: www.jimmy.com

Name Card Exchange

Sends Palm-size PC user information to another PC Companion's Contacts database via the IrDA ports.

Freeware
Use with: Ps/PC
Download at Tucows CE Monster: www.cemonster.com or developer Web site
Developer contact: Woody
E-mail: nbawoody@chollian.net
Web: http://user.chollian.net/~nbawoody/Product/NCardEx/NCardEx.html

Xaudio

Write your own MP3 player in a few lines of code with the XAUDIO SDK, now available for the Windows CE platform. You can very easily write your own GUI or other front-end to the Xaudio decoding engine. The SDK includes the libraries and sample code for Visual C++, Delphi, C/Command-Line, Motif, etc. The UNIX SDK also makes it easy to write a GUI or other interface even from languages that cannot easily link with a C library (like java, perl, tcl/tk, and others).

Freeware (for individual use)
Use on the desktop PC
Download at developer Web site
Developer contact: MpegTV
Phone: 415-260 3723
E-mail: info@xaudio.com
Web: www.xaudio.com/

Waba

Waba is a programming platform that lets developers write one program that can run on Windows CE devices, a PamPilot on any machine that supports Java.

Freeware
Use with: Ps/PC (MIPS only)
Download at developer Web site
Developer contact: Wabasoft
Phone: 650-938-7924; Fax: 650-938-7924
Email: question@wabasoft.com
Web: www.wabasoft.com/

PhatWare Corporation specializes in software for the Handheld PC.
By listening carefully to customer feedback, we have created products that fulfill our users' important needs and desires.
Visit PhatWare's web site and try our products for 15 days absolutely FREE!

http://www.phatware.com

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- Check your documents with HPC Spell.
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Quick Tips & PC Companion Tricks

Special CompuServe Palmtop Forum edition

Special thanks for this issue's tips goes to Jim Christian, one of the founding Windows CE Sysops with CompuServe's recently upgraded PALMTOP Forum. Jim has been helping CompuServe members select and trouble shoot palmtops for nearly 10 years.

Keep Important Information on your PC Companion in case you get hurt

I have 30+ Contacts within a newly created Category of "JIM HURT." If I ever get hurt, disabled or die, my wife can sort on this Category and find out important things like: Life Insurance information; Bills Due; Who to call at Work; Stocks, Bonds, Mutual Funds, etc.; IRS info; Private Papers; A personal letter to her; Location of our Will; Savings; Mortgage stuff, etc. (see Screen 1).

Bank online from your H/PC

I use Bank of America's Home Banking online services when I travel to bank on-line from their Web site. I can pay bills, get balances, transfer funds, etc. It is one of the few banks that allows it from a Windows CE device, due to the smaller encryption code length. I pay $2.00/month for the above Home Banking transactions and plus Versatel, due to the minimum balance I keep. I signed up for Home Banking services @ ww.bankofa.com and then accessed it from my H/PC's Pocket Internet Explorer Web browser (see Screen 2).

Seeing more Contact information

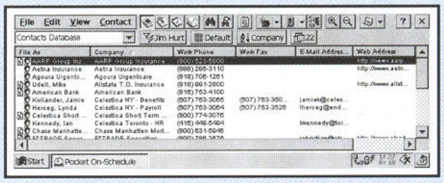
The fewer taps you have to make to get Contact information, the less work you have to do. Set up Contacts so that the main list screen shows as much important information as possible (see tip in Jan/Feb 99 issue, page 56). I always use lowercase letters when entering names, addresses, and other Contact data. It allows a few more characters in the main list view, and it's less likely that I'll have to tap the screen again to view additional screens of data.

If you have a few capital letters in Contacts, it's probably not worth the time going through and changing things. But if you've entered EVERYTHING IN CAPS, you might want to fix things. You should also get out of the habit of typing everything in caps. Not only does it take up more space, it's harder to read words, phrases and sentences where every letter is capitalized.

You can also display more information by adjusting the font and font size in Contacts. From the main screen, tap Tools, Options, Choose Font. Times New Roman is a compact font, designed to put a lot of characters in a small space. It gets a little hard to read if you select an 8 pt font size. If you're going to go that small you might want to select Arial as your font. It's not quite as compact as Times New Roman, but some find it easier to read.

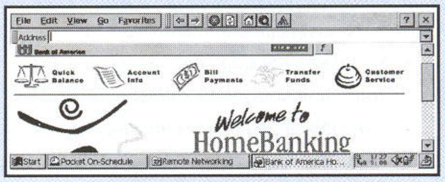
Be creative: use Pocket Outlook your way

Pocket Outlook was designed by Microsoft software engineers to work a certain way, but there's no law that says you



File As	Company	Work Phone	Work Fax	E-Mail Addres...	Web Address
AARP Group Inz...	AARP Group Insurance	(800) 523-5800			http://www.aarp
Aetna Insurance	Aetna Insurance	(888) 265-3110			http://www.aetn...
Agoura Urgentc...	Agoura Urgentcare	(818) 706-1261			
Udell, Mike	Allstate T.O. Insurance	(818) 991-2800			http://www.allst...
American Bank	American Bank	(818) 763-4100			
Kollander, Jamie	Celestica NY - Benefits	(607) 763-3066	(607) 763-360...	jamiek@celes...	
Herceg, Lynda	Celestica NY - Payroll	(607) 763-3064	(607) 763-3526	lherceg@end...	
Celestica Short ...	Celestica Short Term ...	(800) 774-3076			
Kennedy, Ian	Celestica Toronto - HR	(416) 448-6494		bkennedy@tor...	
Chase Manhatte...	Chase Manhattan Mort...	(800) 631-6946			

Screen 1: You can create a special category in Contacts that can be selected to display vital information for your business associate, wife, or husband, in case of an emergency.



Screen 2: You can access Bank of America's Home Banking online services from your H/PC or Palm-size PC to conduct financial transactions. The PC Companion must have a modem. H/PC users can use the built-in Pocket Internet Explorer to connect. Palm-size PC users need a third-party Web browser to connect.

can't "do it your way." For example, I've adjusted the columns displayed in Contact's main list view to display the following fields:

File As, Work Tel, Work Fax, Home Tel, Email1

Since I don't normally enter Home Tel information for work Contacts, I use it for other data, including Passwords, Customer Numbers, Registration Numbers, etc. You can use the two "Other" fields in the Business and Home tabs for all sorts of information. And the Notes tab can store a lot of text.

My Tasks list grows faster than my ability to complete the items in it. That's because every time I have an idea about something that I should do, it goes in there. I may not be able to get to it right away, but I want it there, for the future. I have a lot of these "someday" Tasks, so I enter them with a future start data, depending on when I want to be reminded about them. When they come due, I take another look at them, and decide what I want to do about the idea (delete it, put it off again, or do it).

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I use Calendar for TV programs, online chat sessions, and other events that happen at a particular date and time. If I see an announcement for a TV program I want to watch, it goes in Calendar with an alarm. If a special discussion is going to take place in one of our Windows CE chat rooms, it goes in Calendar. Shows or events that happen regularly are entered as recurring appointments. My HP 660LX sits on the end table at night to remind me.

Travelers: save time and money by using ISPs with Toll-Free 800 Numbers

I travel a lot and to check e-mail and browse the Web I used to spend a lot on long distance calls to my Internet Service Provider. Some ISPs had local numbers in various major cities, but it still required that I keep track of all these numbers. Then I got smart and found an ISP with an 800. The monthly service charge is a little more, but I saved time and energy on the road. I've tested and found acceptable the following ISPs:

CompuServe (www.compuserve.com)

IBM Net (www.ibm.net)

Earthlink Net (www.earthlink.net)

Sprynet (www.sprynet.com)

All have at least one toll free U.S. 800 number, have WinCE setup help, and have a lot of international telephone numbers.

In the U.S., you have to dial a '1' before an 800 number. And in some hotels and businesses you have to dial an '8' or '9' to get an outside line. When you set up a new "Dial-Up Connection" one of the screens lets you enter the phone number. For a U.S. 800 number, enter '1' in Country field, '800' in the Area field, and the rest of the number in the Telephone number field. Then check the box labeled "Force long distance."

The first time you try to use this Dial-Up Connection you'll be asked to configure it further, entering your ISP User Name, Password, and other information. If you've already used a Dial-Up Connection, you can modify this information from the Communications application in the Control Panel. This process will eventually get you to the Dialing Patterns dialog box. The second line, titled 'For Long Distance calls dial:' needs a different set of characters in it, depending on the location you are dialing from. (The comma between the characters inserts a short pause in the dialing pattern.)

Dial from Characters	
Direct dial phone line	1FG
Dial 9 to access outside line	9,FG
Dial 8 to access outside line	8,FG

Instead of modifying this dialing string each time you change locations, the easiest thing to do is to set up a different Dial-Up Connection for each case.

Save time: don't double-enter expense reports

I have to use a company-designed form to submit travel expenses. And while dedicated expense tracking programs are nice, I ended up double entering data from the expense tracker into the company document. It's true that packages like bTRACK (www.bsquare.com) and Expense Force (www.ruksun.com/wince/) will let you customize reports and, in the case of bTRACK, integrate with company expense tracking systems.

But my company's system is a simple Word document template. It's much easier for me to copy it over to my H/PC and keep it there as a template. Whenever I go on a trip, I open it up, fill it out, save it, and send it in. I save it with a name indicating the trip it is associated with. For example, expenses for the Week Ending Jan 2, 1999 were saved as WE1-2-99. I keep these files in a folder labeled 'Expense Accnt.'

Plenty of templates out there: modify them and make them your own

Templates are wonderful ways to save time and money. Whenever you find yourself recreating text or formatting for a Pocket Word or Excel document, you should save it as a template so you won't have to do it again.

The best news is that you don't have to start from scratch. Computer users have been creating and saving templates for desktop PC versions of Word and Excel for quite a while. Many of them can be used as is, or simplified to work on the H/PC. When you transfer an Excel or Word document from a desktop PC to an H/PC, Windows CE Services converts it to Pocket Word and Pocket Excel format. The newer H/PC Pros have versions of Pocket Word and Excel that can open desktop versions of the documents without the conversion process (although some features and formatting will be lost).

Here are some places online where you can download Word and Excel templates:

Microsoft Word templates (http://officeupdate.microsoft.com/downloadCatalog/dldWord.htm.

Microsoft Excel templates (http://officeupdate.microsoft.com/downloadCatalog/dldExcel.htm)

CompuServe — CSI subscribers can access hundreds of templates on the Word or Excel forums. Type GO MSWORD and GO MSEXCEL at CSI's opening screen.\.

Lotus Web site — Lotus's Web site has tons of 1-2-3 templates. You can import them into the desktop version of Excel or Word, save them and convert them to Pocket Excel or Word. (http://www.support.lotus.com/homeframe.nsf)

Many other forums, Web sites, and newsgroups have templates related to their specific focus. For example, I've seen hundreds of templates for medicine, finance, stocks, bonds, mutual funds, recipes, and more. Remember that Pocket Word and Excel don't have all the features of their big brothers. When you select a desktop PC template to download, the simpler the better.

Who says you can't see an H/PC's color screen in outside daylight?

Color screens were incorporated into H/PCs to make the display more interesting and easier to see. Most of the screens show up fine in roomlight, but are a little difficult to see in outside daylight, and very difficult to see in direct sunlight. Here are some things you can do to improve the situation outside.

- Take your sunglasses off – the polarizing effect reduces visibility.
- Crank up the screen contrast.
- Find shade to view in, or hold your hand above as a sunshade.
- Twist the screen to an angle that maximizes its viewing ease.
- Turn off the Automatic Dimming Control, if you have one.
- Make sure you have freshly charged batteries.

One problem with the H/PCs is that the majority have touchscreens. A touch-sensitive layer has to be built into the screen, and this reduces visibility. Hewlett-Packard and Samsung are coming out with H/PC Pros without touchscreens, and perhaps their screen visibility will be better. But bright outdoor-readable screens require a lot of electrical current to power them and the existing battery technology is just not there yet. Most laptops have the same problem.

Scan and copy important documents for desktop to H/PC

You never know when you need them, so I carry all my important documents with me wherever I go, on my H/PC. These include my Will, Car Insurance, documents from work, things I get in the mail, and more. Unfortunately, many of them were not originally in electronic format. I use my desktop PC, a flatbed scanner, and Xerox's TextBridge OCR (Optical Character Recognition) software to put all of my important documents into text files. Then I copy them to my H/PC.

For example, my will was created years ago and recently I wanted to make some changes to it. I only had a paper copy of it, so I scanned it, used Textbridge to convert it to a text file, opened the text file in Word (on my desktop PC), corrected a few errors the OCR software made reading it, and saved it as a Word document. Finally, I used Windows CE Services to copy it to my H/PC. I had it with me wherever I went, and could look it over and edit it before I met with my lawyer. As a precaution, I also kept with me a floppy disk with a duplicate of the original Word document.

A reasonable scanner, on sale, can be purchased for as low as $75. The Textbridge OCR software was less than $100 (with rebates) at Frys here in Los Angeles. Xerox has a free demo of their software available at www.textbridge.com.

Extra insurance incase your 'restore' doesn't work

I have owned and tested over 30 palmtops and most of them have crashed at least once, with a complete loss of data. That's why we back up regularly, right? Well, backing up is good, but restoring the data is better. And at least five times last year I was not able to restore backed up data to my Windows CE device. The problems were caused by Outlook 98 crashing on my desktop, and a host of other unexplained events. I was either notified that I couldn't connect to my desktop, or that my backup data was corrupted. Here is some of the 'extra insurance' I have developed to guard against this nightmare.

- Print out everything in your H/PC. Yes, I mean an old fashion hard copy. If the worst ever happened and you couldn't Restore your data, you could always type everything back in...heaven forbid. The easiest way to do this is to copy everything over to your desktop PC and print it out from there. Synchronize Pocket Outlook data with the desktop and print it out from the desktop.
- If you consider your data irreplaceable, as I do, consider backing up on a daily basis, using multiple backup programs. I use the following:

1) The backup utility built into the HP 620/660LX;

2) Regular, daily synchronization with my desktop PC's Outlook 98 program;

3) Windows CE Services' Backup program;

4) The outstanding HPC dbExplorer 1.3 available from Phatware (www.phatware.com);

5) Database Backup Utility available at (http://members.aol.com/pdcjons).

- Don't use third-party programs if they don't make provisions to back up their data

Journal
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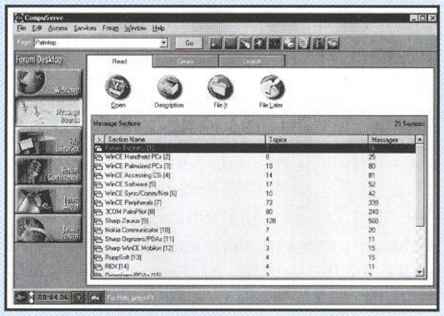
files. There are a lot of nice productivity programs out there, but if you can't easily back up their data, you're in trouble.

- Backup your PC Companion when you are connected to your AC adapter. Backing up while on batteries can take longer, and if the batteries run out in the middle of the backup, your PC Companion will power down and you might corrupt the data.
- Consider using a PC or CompactFlash memory card for backing up your data. In fact, consider buying two cards for use on alternating days. And remember to take them out of your PC Companion immediately after you backup. If it's in the card slot, and you loose your H/PC, you loose your backup!
- Users of Hewlett-Packard's HP 360/620/660 and Jornada 820 H/PCs can download limited Calendar, Contacts, and Notes to the REX card (www.franklin.com/rex/). Downloading this information is a one-way process. You can't restore information from the REX to the HP, and the information on the REX is abbreviated.
- Only two programs will do a complete system backup of your PC Companion (including software programs you have installed, the registry and configuration files) These programs are: Windows CE Services and bSQUARE's new bUSEFUL Backup Plus utility (see review, page 22, or contact www.bsquare.com). Other backup utilities only back up the data files.
- Back up your desktop PC daily. You synchronize Pocket Outlook with your desktop PIM every day (hopefully). And you store your H/PC backup files on the desktop. If your desktop PC's hard drive 'goes South,' all your precautions are for nothing. Back up your desktop PC. If you're in an office, talk to your MIS person and arrange to have it backed up to the network. If you have a standalone desktop PC, you might want to look into getting a tape backup drive. If you're using Outlook on your desktop, you can export Calendar, Contacts, and Tasks data and print it out as a backup. For example, open Outlook on your desktop PC, go to Contacts, and select File, Import/Export, Export To A File. Outlook will let you export the data to a number of different file formats. I export my data to Comma Separated Values (.csv) and then import it into Excel to print out.



Section Name	Topics	Messages
Forum Business [1]	7	16
WinCE Handheld PCs [2]	8	25
WinCE Palmsized PCs [3]	19	80
WinCE Accessing CSi [4]	14	81
WinCE Software [5]	17	52
WinCE Sync/Comm/Net [6]	10	42
WinCE Peripherals [7]	73	309
3COM PalmPilot [8]	80	240
Sharp Zaurus [9]	128	560
Nokia Communicator [10]	7	20
Sharp Orgnzers/PDAs [11]	4	11
Sharp WinCE Mobilon [12]	3	15
RuppSoft [13]	4	15
REX [14]	4	11

Screen 4: CompuServe's Palmtop Forum opening screen. The Forum supports users of Windows CE Handheld PCs, H/PC Pros and Palm-size PCs. Information on a number of other PDAs is also found in this forum.

EXTREME GEAR
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PalmSuit
Sleek black neoprene cases feature rugged zippers, storage pockets, and more! Use as slipcases, or attach to velcro-compatible neoprene for play-through use.

These are top-quality cases designed for functionality and elegance, their sleek lines and contemporary design offer visual appeal, while the rugged 3mm neoprene construction offers excellent protection for the handheld device on the go.

Palm Suit Dimensions:
5.5" X 3.75" X .8"
WinCE Suit Dimensions:
7.5" X 4" X 1.1"

WinCESuit

MarWare
visit us at http://www.marware.com
or email: sales@marware.com

Synchronize with beta versions of Office 2000 and Outlook 2000

It works! I have been doing it for over a month and all is well. I'm using the latest version of Microsoft's Windows CE Services (2.2) and an HP 660LX H/PC. I can't vouch for other versions.

Get your Windows CE questions answered on the CompuServe Forums ... by guys like me!

CompuServe has been around longer than most worldwide Internet Providers and is noted for its active Forums. A Forum is like a newsgroup where you post and reply to questions, make comments, and download programs and other information related to the focus of the forum. Forums have people called "SYSOPS" who manage the forum and answer questions. Most Forums have very knowledgeable and active members. Most, if not all of the questions get answered, and this is especially true of CompuServe's Palmtop Forum (see Screen 4, type GO PALMTOP at CSI's opening prompt). Forums are divided up into "Libraries," or sub categories. Below, I've listed the Libraries of the Palmtop Forum.

The (GO) PALMTOP Library sections for you are:

1. Forum Help and Info
2. WinCE Handheld PCs
3. WinCE Palmsized PCs
4. WinCE Accessing CSi
5. WinCE Software
6. WinCE Sync/Comm/Net
7. WinCE Peripherals
8. 3COM PalmPilot
9. Sharp Zaurus
10. Nokia Communicator
11. Sharp Orgnzers/PDAs
12. Sharp WinCE Mobilon
13. RuppSoft
14. REX
15. Organizers/PDAs
16. News/Reviews/Shows
17. Miscellaneous Files
18. DOS Palmtops
19. General Magic
21. GEOS Organizers/PDAs
23. Utilities (DOS/Win)

CompuServe has a separate Hewlett-Packard handheld Forum (GO HPHAND), and Psion Forum (GO PSION) and a Palm Pilot Forum (GO PILOT). In fact, CompuServe has nearly 1,000 Forums on many different subjects. The only downside is that, at present, you can't access CompuServe Forums from Windows CE devices. You have to do your browsing from your desktop PC. CompuServe costs as low as $10 per month (for 5 hours service) and offers a 30-day free trial. For more information, visit CompuServe's Web site at www.csi.com or call 800-394-1481 for a free CD. ■

PC COMPANIONS ONLINE

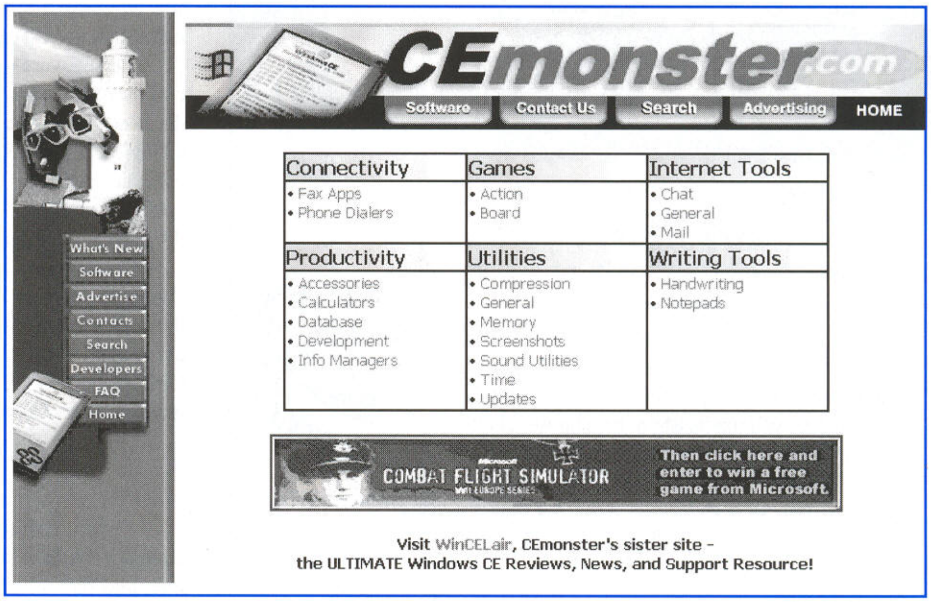
TUCOWS ... Are Better Than One!

By Tom Gibson
Technical Editor
tom_gibson@thaddeus.com Web site: www.hpcmag.com

If you're not satisfied, do something about it! This universal bit of wisdom applies to the world of computers, whether your computer uses Windows 95, 98, NT, or Windows CE. One way to improve your computer, and your own satisfaction with it, is to add software that makes it do what you want it to do. And with shareware or freeware, it doesn't have to be expensive. In this issue, we look at the TUCOWS family of Web sites. They have something for desktop PCs, Windows CE, and just about everyone else.

TUCOWS (www.tucows.com) started in 1994 as a public service for new Internet users. It has expanded to over 450 affiliates in over 70 countries on six continents world wide, receiving millions hits per month. TUCOWS is the world's number one Internet software site. I must admit that I have been one of the faithful users of this site since I have been on the Internet. TUCOWS started out being a site to get Internet software. (The name is an acronym for The Ultimate Collection Of Winsock Software - a "Winsock" is any implementation of the TCP/IP sockets protocols which operates on Microsoft Windows and TCP/IP is the protocol of the Internet.)

TUCOWS has expanded beyond just Internet software for Windows and now includes a wide variety of software for Windows 95/98/NT, Macintosh, Linux and



Connectivity	Games	Internet Tools
• Fax Apps • Phone Dialers	• Action • Board	• Chat • General • Mail
Productivity	**Utilities**	**Writing Tools**
• Accessories • Calculators • Database • Development • Info Managers	• Compression • General • Memory • Screenshots • Sound Utilities • Time • Updates	• Handwriting • Notepads

Visit WinCELair, CEmonster's sister site -
the ULTIMATE Windows CE Reviews, News, and Support Resource!

CE Monster's Home Page lets you select the category or sub-category of Windows CE shareware, freeware, or demoware in which you are interested. You can also search on a product name or type.

Craig Peacock's Windows CE Pages (www.craigtech.co/uk) — an excellent Windows CE resource.

Our sincerest apologies to Craig Peacock for leaving his excellent sites totally unmentioned in the 1999 Buyer's Guide issue. Craig's are some of the best all-around sites for Windows CE information, and include news, reviews, FAQs, how-tos, free software, links to other Windows CE sites, and a whole lot more.

If you are looking for information about your PC Companion, Craig Peacock's Windows CE Pages are well worth visiting.

PLUG INTO WINDOWS CE

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LOW POWER ETHERNET
LP-E
DUAL SERIAL CARD
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PORT A
BATTERY FRIENDLY

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BATTERY FRIENDLY

Low Power Ethernet Cards
Synchronize, backup and copy files quickly from anywhere on your LAN with the first Ethernet cards for H/PCs and P/PCs.

Serial I/O Cards
The top selling serial adapters for H/PCs and P/PCs make it a snap to add an external modem, scanner or other COM device.

Dual I/O Cards
Add two communication ports to your H/PC for special applications such as data collection, GPS, or equipment control.

Bar Code Wand Cards
Turn your H/PC or P/PC into a portable bar code scanner. Includes Socket's keyboard emulation software and a Welch Allyn wand.

Bar Code Laser Scanner Cards
Use your H/PC for high performance bar code scanning. Includes a Symbol Technologies LS2104 or LS4004 handheld laser scanner.

Ethernet I/O Card
Now your H/PC can have an Ethernet adapter and a serial port on a single PC Card. Great for data collection and fast uploads.

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SOCKET®

Java. TUCOWS software categories include audio, browser and accessories, communications, connectivity, e-mail tools, entertainment, HTML tools, Internet tools, multimedia tools, online services, security, server tools and utilities. You can find just about everything you need for your Windows desktop here, as a freeware, shareware, or commercial demo program. And because TUCOWS has a large number of mirror sites around the world, downloading their software is almost always fast and reliable.

PDA Central: CEMonster, CELair, PilotZone, NewtonVille, and PsionKing

When handheld computers began to proliferate, TUCOWS created PDA Central (www.pdacentral.com). PDA Central includes the following sites:

CEMonster – a large source of software for Windows CE PC Companions.

CELair – provides news, reviews and support for Windows CE.

PilotZone – software and support for users of the Palm Pilot.

NewtonVille – for users of the Apple Newton.

PsionKing – for those using the Psion palmtop computers.

CEMonster and CELair provide excellent support for PC Companion users. Taken together, they provide news, reviews, support, and software. When we're looking for news about new software, one of the first places we go is CEMonster and CELair.

I have written a little about CE Monster in the past, but I feel the site warrants a more detailed look. The site is broken down into 6 major categories, each with a number of subcategories (see Screen 1).

The software available on CE Monster is freeware, shareware or commercial demos. The commercial demos may have some features disabled, or may be limited to operating a specific number of days. CE Monster is updated constantly, and the "What's New" section will show you the last 2-3 weeks worth of additions and updates. All software on TUCOWS is checked for viruses before being placed on the site.

To download a piece of software, you first have to find it. You can do a search on its name, or click on the product category and look through the list. Once you've found it, click on the download icon associated with your PC Companion. You have to know the type of CPU your H/PC or Palm-size PC uses. If you don't have that information, go to CEMonster's FAQ section to find out.

* * *

CE Monster rates all of the software using its famous "cows' heads" system. One head is not so good; two cows are better than one; and five cows' heads is the best. This is not only cute, but also very functional in that it lets you know what they think of the software quickly and visually.

TUCOWS and its affiliate sites not only have a lot of software, but the sites are easy to use, a real big plus in my opinion. The categories are fairly self-explanatory and there are sub-categories to help you easily find what you need.

I will continue to take in-depth looks at deserving Web sites in the future, but I have to go download some of the new games! So until next issue, I'll see you ONLINE! ■

PC COMPANIONS

At A Glance

Handheld PCs and H/PC Pros

Casio

CONTACT your local Casio dealer or Casio, Inc.; Phone: 201-361-5400; Fax: 201-361-3819; Casio accessories information 800-836-8580; Web: www.casio-usa.com/hpc/

Casio CASSIOPEIA A-20 — $599.95

SUMMARY: *One of the smaller, less expensive grayscale display H/PCs running Windows CE 2.0. It's easier to carry with you, and you'll get better battery life (15-20 hours) than a larger, or color-screen H/PC.*

HARDWARE: 80 MHz Hitachi SH-3 CPU; 8 MB RAM; 640 x 240 backlit display with 4 shades of gray; QUERTY keyboard, serial port, IrDA infrared port; Type II PC Card slot; CompactFlash Card slot; built-in microphone and speaker; two AA Alkaline batteries; backup battery; AC adapter; user guides; CD ROM with sample software.

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1(CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFAX Pro – adds fax send and receive capability; QV Camera Connection – import and display graphics, add text and store images; SkyTel software – send and receive wireless messages (need SkyTel 2-way pager); PageCard – software to access the nationwide GTE pager network service to receive e-mail, stock quotes, market news, and any other information anywhere (need Socket PageCard); Virtual Courier — e-mail server software to access to Microsoft Mail, or Microsoft Exchange-based network, or cc:Mail network; Financial Consultant – an on-screen multi-functional calculator for financial analysis; Casio Project Management Software; Casio Easy Find File Tool.

LIVE LINKS
to the Web sites mentioned in this section!
WWW.HPCMAG.COM
Your Gateway to Windows CE!

ACCESSORIES: PC Docking Cradle; AC adapter; Rechargeable Battery Pack; CompactFlash to PCMCIA Adapter; 16MB Compact Flash Memory Card; 8MB Compact Flash Memory Card. Charger for A-10/A-11/A-20; Stylus Ball/Pen Combination; Slimline Stylus; 3-stylus pack; Data Communications (serial) Cable; Docking station.

Compaq

CONTACT your local Compaq dealer or Compact Direct Plus; Phone (USA): 800-888-5858; Web: www.compaq.com

Compaq C-Series 2010 c
(color screen) - $799

SUMMARY: *One of the smallest color-screen H/PCs running Windows CE 2.0. Relatively easy to slip in a pocket or purse, and the color screen is easy to see. Battery life is short (around 3 hours), so you'll want to get a spare battery pack if you go on long trips. Built-in modem lets you send/receive e-mail and browse the web (slowly). Small, calculator-type keys are firm to the touch – you won't press them accidentally, and you won't type too fast.*

HARDWARE: 75MHz MIPS RISC CPU, 16MB ROM, 20MB RAM (expandable to 32 MB), 640 x 240 color touch-sensitive screen; integrated 33.6 modem (optional in some countries); Type II PC Card slot; powered by NiMH rechargeable battery pack (standard on model 2010c) an A/C adapter (included); serial cable; user guides; CD ROM with sample software.

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1(CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFAX Pro; Carbon Copy; Mail on the Run; QuickNotes; Pocket BizCalc; Spry Net Client.

ACCESSORIES: Portfolio Case; Carrying Case; Slipcase; A/C adapter; NiMH Battery Pack (810); NiMH Battery

Pack (2110c); External Battery Charger; 16MB memory upgrade; 10MB Flash Ram PC Card; Stylus 3-Pack; VGA PC card adapter Compaq Security Lock; Auto Sync Connectivity Cable; Data Cradle.

Compaq C-Series 810
(gray-scale screen) - $499

SUMMARY: *A Windows CE 2.0 H/PC similar to the C-Series 2010 c described above, but with a monochrome screen, making the battery life much better (up to 20 hours on two AA alkaline batteries). A little smaller than the 2010 c and easier to slip in your pocket.*

HARDWARE: 75MHz MIPS RISC CPU, 16MB ROM, 8MB RAM (expandable to 20 MB), 640 x 240 mono touch sensitive screen; integrated 33.6 modem (optional in some countries); Type II PC Card slot; powered by two Alkaline AA batteries or A/C adapter (included); serial cable; user guides.

SOFTWARE: Same as Compaq C-Series 2010c.

ACCESSORIES: Same as Compaq C-Series 2010c.

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Ericsson

CONTACT: Ericsson Mobile Communications; Web: www.ericsson.com

Ericsson MC16 — $749

SUMMARY: *Hewlett-Packard manufactures this Windows CE 2.0 H/PC for Ericsson, and HP is known for quality and reliability. The MC16 is the only H/PC that comes with a built-in infrared modem, letting you communicate with Ericsson cellular phones for e-mail and (slow) Web browsing. The MC16 is a small and pocketable H/PC with decent battery life (8 hrs.) because of it's monochrome screen.*

HARDWARE: H/PC based on Hewlett-Packard's HP 360LX (see HP section for details). Other features include: Built-in infrared modem lets you communicate with an Ericsson cellular phone to; send and receive faxes, e-mails, browse the Web; send quick SMS messages to mobile phones and fax machines; synchronize the phone book with your Ericsson phone.

SOFTWARE: Microsoft Windows CE 2.0 operating system, accessories, and "Pocket" applications. "My Ericsson Phone" application for phone book management and GSM short messaging capability for the In-Box. Also includes BFax Professional and HP's Month-at-a-Glance utility built-in.

ACCESSORIES: Information about specific MC16 accessories not available, but they should be similar to the HP 360LX's accessories. The MC16 is compatible with the following Ericsson mobile phones (model numbers): GF 788, GF 768, GH 688, GA 628, GH 398, GH 388, GF 388, GA 318, PF 768, PH 388, CF 788, CH 388, CF 388, CA 318, CF 688, CA 638.

Hewlett-Packard

Contact your local HP dealer or Hewlett-Packard Company; Phone (USA): 800-443-1254; Web: www.hp.com/handheld

HP Jornada 820 H/PC Pro - $999

SUMMARY: *H/PC Professional Edition running Windows CE 2.1. Comes with a near-full-size keyboard and large, easy-to-read color screen. The Jornada is the first Windows CE device not to include a touch-screen. Instead, it uses a mouse touchpad below the keyboard. The Jornada is the size of a small notebook computer and you'll end up carrying it in your briefcase. Fast internal modem and full-size screen makes Web browsing and e-mail fast and easy. VGA monitor port lets you use an external monitor with the Jornada for presentations and regular use. The Jornada has remarkably good battery life (15 hrs with optional high-capacity battery) for a color screen unit. The Jornada ships with an excellent suite of additional software.*

HARDWARE: 190 MHz StrongARM RISC CPU; 16MB RAM; 16MB ROM; 8.2" (diagonal) 640x480 color VGA screen with 256 colors (not a touchscreen); touch-typeable QWERTY keyboard with integrated touch mouse pad; internal 56k modem; serial port; fast IrDA infrared port; VGA monitor port; modem port; Universal Serial Bus port; Type II PC Card slot; Type II CompactFlash slot; lithiium-ion rechargeable battery pack; backup batteries; AC adapter; synchronization cable; Phone cord, quick start and users guide.

SOFTWARE: Windows CE 2.11 operating system; H/PC Pro Pocket applications and accessories; Windows CE Services 2.2 (CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: Jornada Viewer, Jornada Dialup, Jornada Hot Keys setup, Jornada Settings utility, Jornada Show, Jornada Backup, LandWare's OmniSolve financial calculator, bFAX Pro, bVIEW, bFIND, Proxim RangeLAN-2 software driver, HP TopTools Agent, TrueSync CE 2.0 for REX and REX Pro users, Microsoft Java Virtual Machine, Citrix ICA client, and the INSO file viewer.

ACCESSORIES: Synchronization cable, sync/AC cable, AC adapter, standard lithium-ion rechargeable battery pack; extended life lithium-ion rechargeable battery pack, parallel printer cable, serial adapter, 16MB RAM upgrade, 4MB and 10MB CompactFlash cards with PC Card adapter.

HP 660LX palmtop PC - $849
HP 620LX palmtop PC - $699

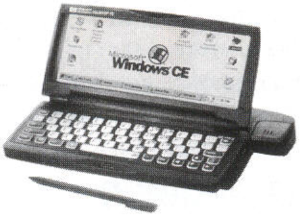
SUMMARY: *Two of the most popular Windows CE 2.0 H/PCs. The 620LX and 660LX are slightly larger than the smallest H/PCs and still slip into an outside coat pocket or a purse. Their keyboard is smaller than those of the newer H/PC Pros, but still relatively easy to touch type on. Their 640x240 color screen is easy to see and their battery life is reasonable (6-8 hrs). The 660LX ships with 32 MB of internal memory and a fast, 56 Kbps fax/modem card. The HPs are well manufactured and ship with an excellent suite of additional software.*

HARDWARE: 75 MHz CPU; 32 MB RAM (HP 660LX); 16 MB RAM (HP 620LX); 640x240-pixel 256 color screen; QWERTY keyboard; 56 kbps fax/modem card (with 660LX only); serial port; IrDA infrared port; Type II PC Card slot; CompactFlash Card slot; Lithium-Ion rechargeable battery pack; 3V CR2032 coin cell backup battery; microphone and audio speaker; synchronization cable; docking cradle; AC adapter; user guide; CD ROM with sample software.

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1(CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFAX; bFIND; Financial software; Remote Networking and Terminal Application software; Calendar viewing utilities. Software on disk or CDROM: H/PC Explorer version 2.0; Translation software to convert HP 100/200LX & OmniGo 100/120 appointment/ phone books to H/PC formats; Trial software from independent software vendors.

ACCESSORIES: HP CompactFlash Memory plus PC Card slot adapter: 4MB, 10MB; Spare Data Cradle; External Battery Charger; Pack of 3 pens; VGA Out PC Card; Standard Lithium-Ion Battery Pack; Extended Li-Ion Battery pack; Sync Cable; Leather Case.



HP 360LX Palmtop PC - $549

SUMMARY: *One of the smaller, more pocketable of the Windows CE 2.0 H/PCs. The 360LX comes with a monochrome screen that is reasonably easy to see, excellent battery life (8 hrs) and a nice suite of add-on software.*

HARDWARE: 60 MHz CPU; 8 MB RAM; 640x240 monochrome screen with "natural-white"backlighting; QWERTY keyboard; serial port; IrDA infrared port; Type II PC Card slot; CompactFlash Card; 3V CR2032 coin cell backup battery; user guide; CD ROM with sample software.

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1 (CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFAX; bFIND; Financial software; Remote Networking and Terminal Application software; Calendar viewing utilities. Software on disk or CDROM: H/PC Explorer version 2.0; Translation software to convert HP 100/200LX & OmniGo 100/120 appointment/ phone books to H/PC formats; Trial software from independent software vendors.

ACCESSORIES: HP CompactFlash Memory plus PC Card slot adapter (see 620 LX accessories); Sync Cable; Spare Cradle; Pack of 3 styluses; Leather Case.

Hitachi

CONTACT your local Hitachi dealer or Hitachi Home Electronics; Phone (USA): 800-HITACHI; Web: www.hitachi-ce.com

Hitachi HPW-200EC H/PC — $799

SUMMARY: *A fast Windows CE 2.0 H/PC with a near-full-size, touchtypeable key-*

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board and an easy-to-see 640x240 color screen. Internal modem facilitates e-mail and (slow) Web browsing. The VGA-out port lets mobile users make Pocket PowerPoint presentations. Reasonable (10 hr.) battery life. An excellent choice for mobile users who need to do a lot of text and data entry while on the road.

HARDWARE: 100 MHz Hitachi SuperH SH3 CPU; 16 MB RAM (expandable to 32MB); 12 MB ROM; 8.1" diagonal 640 x 240 touchscreen; 256 color LCD display; large touch-typeable 74-key keyboard; 33.6 Kbps built-in software modem; VGA-out port and IrDA interface; Type II PCMCIA slot; Compact Flash card slot; rechargeable Lithium-Ion battery pack; hot start program launch keys; built-in microphone, speaker and voice recorder; weighs less than 2 lbs with battery pack.

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1 (CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: CompuServe SPRYNET for quick Internet access; bFAX Professional for fax communications; CIC Speller for spell checking; MicroBurst Virtual Courier for accessing Lotus cc:Mail or Microsoft Mail connections; Hitachi Memo Pad and PC Screen Capture; Pocket BizCalc for calculation; Pocket Finance for Accounting.

ACCESSORIES: AC Adapter; Serial Cable; Docking Cradle; Lithium-Ion Battery Pack; Stylus pack; VGA cable; 16MB RAM Memory upgrade.

Hitachi HPW-20E8M H/PC — $599

SUMMARY: *The monochrome screen version of the Hitachi H/PC described above has better battery life (20 hrs) and comes with a slower internal modem. For users who want a touchtypeable H/PC, need the better battery life, and don't mind a monochrome screen.*

HARDWARE: 80 MHz Hitachi SuperH SH3 CPU; 8 MB RAM; 16 MB ROM; 7.1" diagonal 640 x 240 touchscreen; 16 grayscale LCD display; 69-key QWERTY keyboard; 21.6 kbps internal software modem; VGA-out port and IrDA interface; Type II PCMCIA slot; Compact Flash card slot; rechargeable NiMH battery pack; quick launch keys; built-in microphone, speaker and voice recorder; weighs approximately 1 lb.

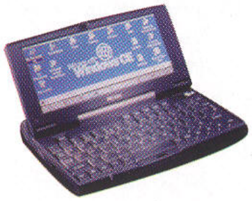
SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1 (CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: See color-screen Hitachi above.

ACCESSORIES: See color-screen Hitachi above.

LG Electronics

CONTACT: local LGE dealer or LG Electronics Customer Information Center; Phone (USA): 800-243-0000; Web: www.lgphenom.com



LG Phenom Express – $899

SUMMARY: *LG's H/PC Pro comes with a near-full-size touchtypeable keyboard. LG stayed with a 1/2-VGA (640x240) screen, making the Phenom Express one of the more compact H/PC Pros (but still too big to carry in your pocket). It has decent battery life (12 hr) and a fast, built-in 56 kbps modem for communications and Web browsing. It also comes with a standard parallel printer port, making it easier to connect to printers wherever you find yourself.*

HARDWARE: 100 MHz Hitachi Super H SH3 CPU; 32 MB RAM, 16 MB ROM; 8.125" (diagonal) 640x240 256-color touchscreen; 74-key touchtypeable QWERTY keyboard; built-in 56 K modem; Type II PC Cars slot; CompactFlash slot; VGA-out port; parallel port; serial port; IrDA infrared port; lithium-ion rechargeable battery pack (12 hrs use per charge); AC adapter; PC Card adapter, backup battery, synchronization cable; quick start and users guides.

SOFTWARE: Windows CE 2.11 operating system; H/PC Pro Pocket applications and accessories; Windows CE Services 2.2 (CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFAX Pro, bVIEW, Pocket Finance, Mail on the Run, E-mail attachment viewer, Internet e-mail setup wizard, Database backup/restore utility, Citrix ICA Thin Client software.

ACCESSORIES: Lithium-ion rechargeable battery pack, AC power adapter, serial connectivity cable; Car Adapter Jack; Stylus Pen pack; 4MB to 48MB CompactFlash cards; Targus leather carrying case.

LG Phenom Ultra — $899

SUMMARY: *Manufactured for LG by Hitachi and based on the HPW-200EC Handheld PC described earlier. A fast Windows CE 2.0 H/PC with a near-full-size, touchtypeable keyboard and an easy-to-see 640x240 color screen.*

HARDWARE: 100MHz Hitachi SH3 CPU; 32MB RAM; 640X240-pixel backlit 256-color VGA display 81/8" diagonal screen); new metallic design, internal 56 kbps modem; "large" QWERTY keyboard; standard VGA-out port; standard parallel port; serial port; IrDA infrared port, Type II PC Card slot; CompactFlash capability with converter card; voice memo capability; rechargeable Lithium-ion battery pack (12 hours of battery life, according to LGE).

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1(CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFaxPRO, Pocket Finance, E-mail set-up Wizard, E-mail FileViewing, Database backup/restore, Mail on the Run! Limited.

ACCESSORIES: Lithium-ion rechargeable battery pack, AC power adapter, serial connectivity cable; Car Adapter Jack; Stylus Pen pack; 4MB to 48MB CompactFlash cards; Targus leather carrying case.

LG Phenom —$399

SUMMARY: *Smaller, monochrome-screen Windows CE 2.0 H/PC. Easier to carry in your pocket and better battery life (20 hrs) than the larger color-screen models. The tradeoff is a smaller keyboard with a screen that is not quite as easy to read.*

HARDWARE: 80 MHz SuperH RISC-Hitachi CPU; 8 MB RAM; 640x240-pixel backlit monochrome display; internal fax/modem; QWERTY keyboard; VGA out port with cable; serial port; IrDA infrared port; Type II PC Card slot; Compact Flash slot; voice memo capability; rechargeable battery pack; docking station; power adapter; user guides; CD ROM with third party software applications.

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1(CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: E-mail Set-up Wizard; E-mail File Viewer; Mail on the Run! (Limited); bFAX Pro; Pocket Finance Expense Management Software; Database Backup & Restore; Citrix ICA CE Client.

ACCESSORIES: AC adapter; Docking station with built-in battery charger; Serial/VGA cable; Lithium-ion rechargeable battery pack; Stylus Pen pack; 4MB to 48MB CompactFlash cards; Targus leather carrying case.

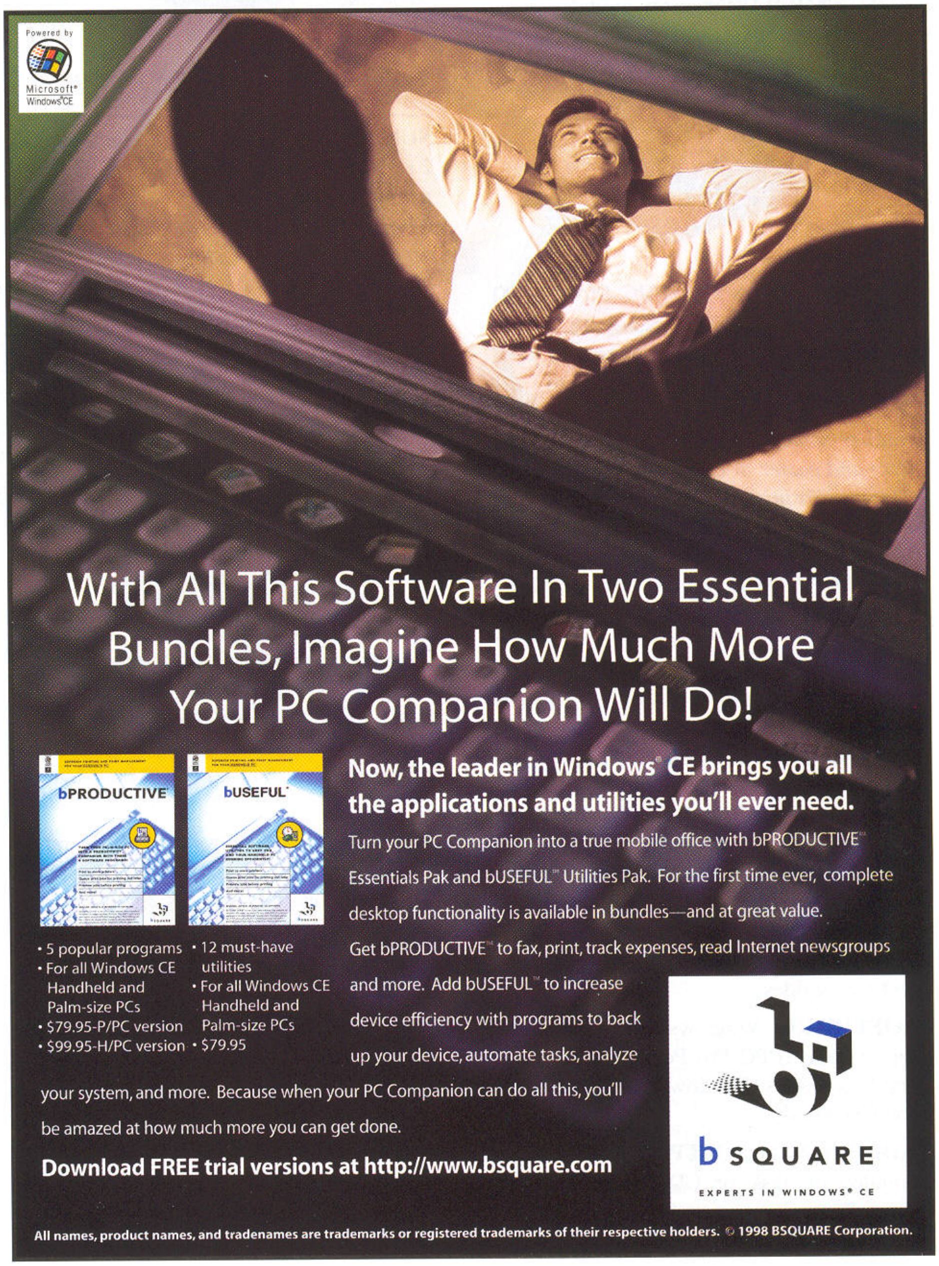
NEC

Contact: local NEC dealer or NEC; Phone: (USA) 888-8-NEC-NOW. Web: www.nec-computers.com

NEC MobilePro 800 Enterprise PC Companion (H/PC Pro) – $999

SUMMARY: *An H/PC Pro with a big color touchscreen and near-full-size keyboard. The MobilePro 800 is the size of a small notebook computer and you'll carry it in your briefcase or shoulder bag. The built-in 56 kbps modem should be fast enough for serious browsing and e-mail. The USB port will let you add fast peripherals and the VGA-out cable lets you connect to an external monitor for Pocket PowerPoint presentations. The lithium-ion rechargeable battery pack is rated at 8+ hrs (consider getting an extra battery pack for long, international flights).*

HARDWARE: NEC VR4121 131 MHz CPU; 32MB RAM, 24MB replaceable ROM; 9.4" (diagonal) 800x600 64K color touchscreen; 78-key touch-typeable QWERTY keyboard; built-in V.90 modem (56K, 33.6Kbps max upload, 53kbps max download, your performance may vary); Type II PC Card slot and Type II CompactFlash+ slot; serial port, IrDA (SIR, FIR) port and USB port; microphone and speaker; headset jack; AC adapter; VGA-out cable; PC sync cable; RJ-11 modem cable; rechargeable lithium-ion battery pack (8+ hrs per charge); quick start and user guides.



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SOFTWARE: Windows CE 2.11 operating system; H/PC Pro Pocket applications and accessories; Windows CE Services 2.2 (CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: JETCET PowerPoint Companion (create or edit new PowerPoint presentations); JETCET PRINT; Connect Force Internet connection wizard; bFAX Express; H/PC dbExplorer, IntelliSync for Act & Organizer; Image Expert CE (30 day trial); Harmony '98 (30 day trial); Citrix ICA Thin Client.

ACCESSORIES: AC power adapter; PC synchronization cable; lithium-ion battery pack; 32MB RAM memory module; stylus pen pack; carrying case; docking cradle.

NEC MobilePro 770 H/PC Pro – $800

SUMMARY: *H/PC Pro without a USB port. Otherwise it's similar to the MobilePro 800 described previously. The smaller screen makes it a little more compact and easier to carry, but you'll still be keeping this in a briefcase. The fast 56 kbps modem will speed up browsing and e-mail, but the 1/2-VGA screen means you'll be spending a little more time scrolling around on most Web pages.*

HARDWARE: NEC VR4121 CPU; 32MB RAM (expandable to 48MB), 24MB upgradeable ROM; 8.1" (diagonal) 640x240 65K color touchscreen; 78-key touch- typeable QWERTY keyboard; built-in 56K modem; Type II PC Card slot and Type II CompactFlash slot; serial port, and IrDA port; microphone and speaker; headset jack; AC adapter; VGA-out cable; PC sync cable; RJ-11 modem cable; rechargeable lithium-ion battery pack; quick start and user guides.

SOFTWARE: Windows CE 2.11 operating system; H/PC Pro Pocket applications and accessories; Windows CE Services 2.2 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: JETCET PowerPoint Companion (create or edit new PowerPoint presentations); JETCET PRINT; Connect Force Internet connection wizard; bFAX Express; H/PC dbExplorer, IntelliSync for Act & Organizer; Image Expert CE (30 day trial); Harmony '98 (30 day trial); Citrix ICA Thin Client.

ACCESSORIES: AC power adapter; PC synchronization cable; lithium-ion battery pack; 32MB RAM memory module; stylus pen pack; carrying case; docking cradle.

NEC MobilePro 750C— $799

SUMMARY: *Another fast Windows CE 2.0 H/PC with a near-full-size, touchtypeable keyboard and an easy-to-see 1/2-VGA 640x240 color (ore monochrome) screen. The internal modem facilitates e-mail and reasonably-fast Web browsing, but the 1/2-VGA screen means that you'll be scrolling around to see all of a Web page. The VGA-out port lets mobile users make Pocket PowerPoint presentations*

HARDWARE: 80 MHz NEC Vr4111 MIPS CPU; 16 MB RAM; 16 MB ROM; 640x480 backlit touchscreen; 256 color LCD; large touch typeable keyboard; built-in 33.6 low-power hardware modem; VGA Port for presentations; Type II PC Card slot; one CompactFlash slot; serial and IrDA ports; built-in microphone and speaker; QuickKeys program to launch applications; AC adapter; PC connectivity cable; RJ-11 modem cable; lithium-ion rechargeable battery, Instant on and 8-hour battery life.

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1(CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: IntelliSync; pcANYWHERE CE; Virtual Courier; QuickNotes; bFAX; bPRINT; Jetforms E-Forms to go.

ACCESSORIES: 32MB Memory Upgrade: 16MB CompactFlash Card; Docking Cradle; Serial Cable; VGA Cable; Rechargeable Battery Pack; (additional battery pack included); AC Adapter, Stylus Pak; Carrying Case.

Novatel Wireless

CONTACT Novatel Wireless; Phone (USA): 888-888-9231; Web: www.novatel-wireless.com; Sales contact: Pinacore: 1-800-PINACOR or Mobile Planet: 800-MPLANET or online at www.mplanet.com.

Novatel Wireless CONTACT — $999.95

SUMMARY: *The only H/PC with a built-in wireless modem – if you need this capability, take a look at the CONTACT. A well-engineered unit based on the HP 360LX hardware. The wireless modem and antenna add to the bulk of this unit, making possible to carry in an outside coat pocket or purse. Slow wired modem is good for e-mail and limited browsing. A VGA adapter can be used with the serial port to connect to an external monitor for Pocket PowerPoint presentations.*

HARDWARE: 80 MHz Hitachi SH3 RISC CPU; 8 MB of RAM (expandable to 32 MB); 640x240 backlit gray-scale touchscreen; built-in 19.2 kbps wireless modem (uses existing U.S. cellular telephone networks); a 14.4 kbps wireline modem; serial/VGA port; type II PC card slot; IrDA infrared port; built-in speaker/microphone; rechargeable lithium- ion battery, AC adapter.

SOFTWARE: Microsoft Windows CE 2.1 operating system, H/PC Pro accessories and "Pocket" applications; Windows CE Services 2.2 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: Wireless Modem Manager; Wireless Subscription Wizard; Wireless Modem Status; bFAX and bVIEW.

ACCESSORIES: All items included with unit can be purchased as accessories. In addition, the following are available: Serial/VGA cable; Leather Case; DC Car power adapter.

NTS Computer Systems

Contact: NTS Computer Systems; Phone: 604-465-1040; Fax: 604-465-3323; Web: http://nts.dreamwriter.com/

Dreamwriter I.T. — $varies

SUMMARY: *Dreamwriter I.T. is a specialty H/PC Pro designed as a computer for students and sold to educational organizations in quantity. It is not marketed as an end-user product, although the NTS Web site lists prices for single units.*

HARDWARE: 80 MHz Hitachi MIPS CPU; 16 MB RAM, 16 MB ROM (upgradeable to 64 RAM, 128 ROM); 640x480 256 color backlit (non-touchscreen) display; touchpad mouse device; 64-key touchtype keyboard; 3.5" (1.44 MB) floppy drive; internal 33.6 kbps modem; external standard VGA display connector; 10 Base-T LAN connector; two Type II PC Card slots; IrDA 1.1 infrared port; serial and parallel ports; connectivity cable; rechargeable NiMH battery pack (8 hrs use); AC adapter; quick start guide and instruction manual. Case optional.

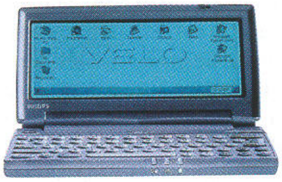
SOFTWARE: Microsoft Windows CE 2.1 operating system, H/PC Pro accessories and "Pocket" applications; Windows CE Services 2.2 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: No information available.

ACCESSORIES: Protective Sleeve, Carry Home Case, 128K or 512K PC Memory Card, connectivity cable for PCs and Macs; AC adapter.

Philips

Contact: Philips Mobile Computing Group; Phone (USA): 888-FOR-VELO; 408-558-2200; Fax: 408-558-2222; Web: www.velo1.com. U.S. retail outlets include: CDW, CompUSA Direct; Mobile Planet, PC Connect, and PC Zone.



Philips Velo 500 (16 MB RAM) — $699
Philips Velo 500 (24 MB RAM) — $799

SUMMARY: *One of the more popular of the smaller Windows CE 2.0 H/PCs that slips easily into a coat pocket or purse. Has a fast processor and good battery life (15 hrs). Low-power modem good for e-mail and (slow) Web browsing. 1/2-VGA monochrome screen means that you'll be scrolling around to see all of a Web page. Memory expansion slots use Miniature Card standard. Additional "V-module" snaps onto bottom of Velo to add PC Card slot.*

HARDWARE: 75 MHz MIPS processor; 16 MB or 24 MB of internal RAM (expandable to 40 MB or 48 MB with an optional 32 MB DRAM Miniature Card); built-in low power 28.8 kbps modem with

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9600 kbps fax; DRAM Miniature Card slot; Flash/ROM Miniature Card slot; 16 level grayscale monochrome screen capable of 480x240 or 640x240 pixel display; Velo Voice Memo system; built-in phone jack; phone cord; rechargeable NiMH battery pack; and docking station, connectivity cable, 9-to-25-pin adapter, AC Adapter.

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1(CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFAX Pro; Microburst Virtual Courier; Spyglass Mobile Forms Database.

ACCESSORIES: Velo 1 upgrade to Windows CE 2.0; 2 MB DRAM Card; 4 MB DRAM Card; 2 MB Flash Miniature Card; 4 MB Flash Miniature Card; Velo Docking Station; Velo Type II PC Card V-Module; Velo-to-PC Serial Cable; NiMH Rechargeable Battery Pack; Traveling AC Adapter; Carrying Case.

Samsung

Contact: Samsung: www.egonote.com/

eGO note H/PC Pro – $850 (est.)

SUMMARY: *A mini-notebook-sized H/PC Pro with a clear full-size screen and near-full-size keyboard. The eGO note incorporates a touchpad instead of a touchscreen. The fast modem and full-sized color screen should make Web browsing and e-mail fast and easy. Comes with USB port and an optional docking cradle that adds external keyboard and mouse capability. Reasonably good battery life (10+ hrs) on its rechargeable battery pack, and you can use regular AA alkalines in a pinch.*

HARDWARE: 148 MHz Toshiba TX 3922 MIPS CPU; 16MB RAM (expandable to 48MB); 16 MB upgradeable ROM; 8.2" (diagonal), 640x480 256-color backlit screen; mouse touchpad (no touchscreen); 65-key touchtypeable QWERTY keyboard; built-in 56K modem; Type II PC Card slot and CompactFlash slot; fast IrDA port, VGA out and USB ports; serial port; RJ-11 jack for modem; docking cradle adds PS/2 Keyboard port, a PS/2 Mouse port, and a standard parallel port; eGO note includes a built-in microphone and speaker, external jacks for each, and independent record/play/stop buttons; powered by a rechargeable lithium-ion battery pack (10+ hrs per charge) or AA alkaline batteries (3.5+ hrs use); comes with quick start and user guides.

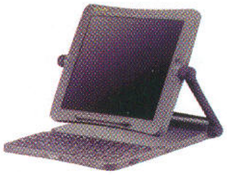
SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.2 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFAX Pro; bMOBILE Chat; bMOBILE News.

ACCESSORIES: AC power adapter; lithium-ion battery pack; docking cradle.

Sharp

Contact: your local Sharp dealer or Sharp Electronics Corporation; Phone (USA): 800-BE-SHARP; Web: www.sharp-usa.com



Mobilon TriPad PV-6000 H/PC Pro – $999

SUMMARY: *The TriPad's "tri-mode hinge" lets you use it in three different positions: as a notebook computer with its near-full-size keyboard, as a pen-only tabled for note taking and information access, and as a "presentation easel" to display Pocket Powerpoint shows. The TriPad has a relatively good (up to 12 hrs per charge) battery life and built-in modem for e-mail and reasonably-fast Web browsing.*

HARDWARE: 90 MHz NEC Vr4111 90 CPU; 16 MB RAM, 16 MB ROM; 9.4" 640x480 256 color touchscreen; 63-key touch typeable QWERTY keyboard; built-in 33.6K modem; Type II PC Card slot; serial port, IrDA port; microphone and speaker; AC adapter; mini-docking station with connectivity cable; RJ-11 modem cable; rechargeable lithium-ion battery pack (12-16 hrs per full charge); quick start and user guides.

SOFTWARE: Microsoft Windows CE 2.1 operating system, H/PC Pro accessories and "Pocket" applications; Windows CE Services 2.2 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: PC File Viewer, Image Editor, bUSEFULBackup utility, Citrix ICA Client, VB/MFC Runtime, Proxim Driver for Wireless LAN PC Card, Trial Version of H/W recognition software.

ACCESSORIES: AC power adapter; synchronization cable; lithium-ion battery pack; stylus pen; carrying case; travel dock.

Mobilon Pro PV 5000 H/PC Pro – $899

SUMMARY: *H/PC Pro with a near-full-size touch-typeable keyboard, full-VGA color touchscreen, and fast CPU. Built-in low-power modem good for e-mail and reasonably-fast Web browsing. Reasonable battery life (8 hrs per charge), but take a spare battery pack with you on long international flights. Sharp's Digital Camera Card works with this H/PC Pro (but not the TriPad).*

HARDWARE: 129 MHz Toshiba TX 3922 CPU; 16 MB RAM; 16 MB ROM; 9.4" 640x240 256 color touchscreen; 69-key touchtypeable QWERTY keyboard; built-in 33.6K modem; Type II PC Card slot; serial port, IrDA port; AC adapter; RJ-11 modem cable; rechargeable lithium-ion battery pack; quick start and user guides.

SOFTWARE: Microsoft Windows CE 2.1 operating system, H/PC Pro accessories and "Pocket" applications; Windows CE Services 2.2 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: PC File Viewer, Image Editor, bFAX Pro, bUSEFUL Backup utility, Citrix ICA Client, VB/MFC Runtime, Proxim Driver for Wireless LAN PC Card.

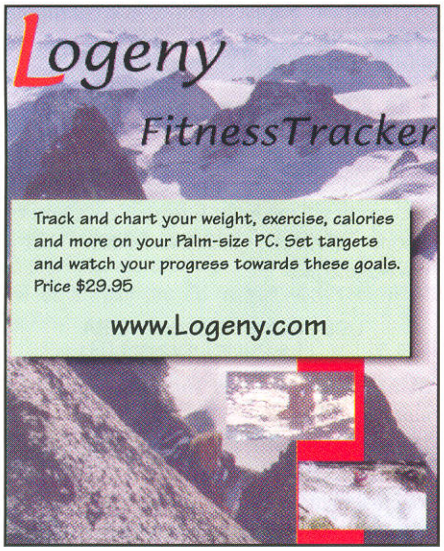
ACCESSORIES: AC power adapter; synchronization cable; lithium-ion battery pack; stylus pen; carrying case; dock; Digital Camera Card (optional).

Mobilon HC-4600 — $699.00
(256 color display, 16MB RAM, upgradeable to 32MB)
Mobilon HC-4500 - $649.00
(256 color display, 16MB RAM)

SUMMARY: *One of the few smaller Windows CE 2.0 H/PCs with a color display. Color touchscreen is easy to read in anything but direct sunlight (true of most color displays). Slips easily into your pocket and provides 4-6 hours on a fully-charged NiMH battery pack. You may want to get a spare battery pack, especially if you use the optional Digital Camera Card. Built-in modem good for e-mail and limited Web browsing.*

HARDWARE: MIPS CPU; built-in 33.6 kbps data/9.6kbps power-efficient modem; Type II PC Card slot; serial port; IrDA infrared port; 64-key keyboard, including seven "one-touch" application keys; LED indicators (Calendar and Task reminders, World Clock daily alarms, when it's time to charge the batteries, when your modem is connected, and when you are recording a voice memo); built-in microphone and speaker (to record and play voice memos); external record button; CR2032 Lithium backup battery; PC Link serial cable; RJ-11 modular phone cable; and Stylus.

SOFTWARE: Windows CE 2.0 operating system, accessories and "Pocket" applications; Windows CE Services 2.1 (CD ROM).


Logeny
FitnessTracker
Track and chart your weight, exercise, calories and more on your Palm-size PC. Set targets and watch your progress towards these goals. Price $29.95
www.Logeny.com

ADDITIONAL SOFTWARE on CD ROM or available at Web site: bFAX Express; Voice Recorder; Image Editor; Sharp Zaurus Data Transfer; Microsoft Windows CE Services; IntelliMigrate; Microsoft Schedule+ 7.0a, In addition to the above software, the HC-4600 comes with PC File Viewer, Citrix ICA Client, bFAX Pro, PhotoLink, a newer version of Image Editor, and MPEG Player.

ACCESSORIES: Docking Station Kit (optional; includes Docking Station, NiMH Rechargeable Battery Pack, AC adapter); NiMH Rechargeable Battery Pack; Digital Camera Card (optional); AC Adapter.

Vadem

Contact: Vadem; Phone: 408-467-2100; E-mail:info@vadem.com; Web: www. vadem. com/home.html.

Clio H/PC Pro – $999

SUMMARY: *The hardware is identical to the Sharp Tripad (which Vadem manufacturers for Sharp). The Clio has the same "tri-mode hinge" lets you use it in three different positions. Clio has a relatively good (12-16 hrs per charge) battery life and built-in modem for e-mail and reasonably-fast Web browsing. The Clio differs from the TriPad in its selection of bundled software (see below).*

HARDWARE: 90 MHz NEC Vr4111 CPU; 16 MB RAM (upgradeable to 32 MB), 16 MB ROM; 9.4" 640x480 256 color touchscreen; 64-key touch typeable QWERTY keyboard; built-in 33.6K modem; Type II PC Card slot and Type II CompactFlash slot; serial port, IrDA port; microphone and speaker; AC adapter; mini-docking station with connectivity cable; RJ-11 modem cable; rechargeable lithium-ion battery pack (12-16 hrs per full charge); quick start and user guides.

SOFTWARE: Microsoft Windows CE 2.1 operating system, H/PC Pro accessories and "Pocket" applications; Windows CE Services 2.2 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFAX Pro; ViewFinder personal information viewer and finder; ParaGraph CalliGrapher handwriting recognition program.

ACCESSORIES: Will probably include an AC power adapter; synchronization cable; lithium-ion battery pack; stylus pen pack; carrying case; docking cradle.

Palm-size PCs

Bcom

Contact: Bcom Electronics Inc.; Web: www.bcom.com.tw/

Mars Palm-size PC (4MB) – $379
(8MB) – $499

SUMMARY: *One of two Palm-size PCs with a built-in modem that's good for sending and receiving e-mail. The power and navigation buttons are on the top half of the left and right sides of the unit, making them easy to access, especially for a right-handed person. Unit comes with a warranty, but must be shipped to Taiwan or repairs.*

HARDWARE: 75MHz MIPS PR3910 CPU; 4MB or 8MB RAM, 8MB or 16MB ROM; 320x240 backlit monochrome touchscreen; built-in 28.8K software modem; serial port; Type I CompactFlash slot; built-in microphone and speaker; AC adapter; batteries; docking cradle and cable; carrying case; manuals.

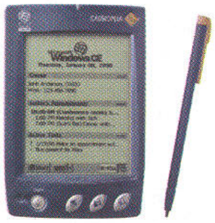
SOFTWARE: Microsoft Windows CE 2.0 operating system, accessories and Palm-size PC "Pocket" applications; Windows CE Services 2.1 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: None announced.

ACCESSORIES: Docking cradle, AC adapter, cable and carrying case will be available as accessories.

Casio

CONTACT your local Casio dealer or Casio; Phone (USA): 888-204-7765 or 973-361-5400; Web: www.casio.com/hpc/e-10.cfm



Cassiopeia E-10 Palm-size PC — $299.99
Cassiopeia E-11 Palm-size PC — $399.95

SUMMARY: *Both Cassiopeia Palm-size PCs have a well-placed "rocker button" that lets you navigate up and down through items and select an option by pressing rocker button. The screen is clear and easy to see and the backlighting sufficient in the dark. The E-10 & E-11 do not ship with a rechargeable battery pack or AC adapter, and you can go through AAA batteries quickly. If you buy an E-10, you may want to purchase the optional rechargeable battery pack and AC adapter. The Cassiopeia comes with a nice set of bundled software.*

HARDWARE: 100 MHz NEC VR4111 RISC processor; 4MB RAM (E-11 comes with 8MB RAM); 8MB ROM; 320x240 touch-sensitive backlit display; CompactFlash slot; serial port, IrDA port, built-in voice record/playback capability. Weighs 5.5 oz (171 g); size 3.2 x 4.9 x .72 inches (8.13 x 12.45 x 1.83 cm), powered by 2 AAA batteries and a CR2016 backup battery. Comes with connectivity cradle, carrying case, manuals, and additional software. **SOFTWARE**: Microsoft Windows CE 2.0 operating system, accessories and Palm-size PC "Pocket" applications; Windows CE Services 2.1 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM (* on with E-11 only): smARTcommander lets you open applications or documents with a voice command; CasioMenu – adds easy-to-access program menu to the Palm-size PC.

Palm Golf* – play an arcade-style golf game on your E-10/11; Randsoft Harmony 98* – lets you synchronize your Cassiopeia with a variety of desktop PC contact management program; bFAX Express – lets you send faxes from your Palm-size PC (need modem adapter); Financial Consultant Calculator – a financial calculator; Tetris CE – a Palm-size PC version of the popular arcade game; Quicken ExpensAble – lets you track expenses; Meeting Minder – an intuitive drag-and-drop outliner; Find File – lets you look for files, with tree directory display; Digital Camera Viewer – view digital JPEG and Casio QV CAM files.

ACCESSORIES: Rechargeable battery pack; AC Adapter; Belt/Fliptop Case; Bi-Fold Case; CompactFlash to PCMCIA Adapter; 4MB, 8MB or 16MB CompactFlash memory card; Replacement Cradle with Cable; Stylus Ball/Pen-Combination; Earphones; Windows CE Services 2.1 on 3.5" floppy disks; Modem Adapter; Screen Protectors; Replacement Case; Slim-line Stylus; Stylus (3 Pack); Deluxe Tri-Fold Case; USBCF Adapter.

Everex

CONTACT Everex Systems; Phone (USA): 888-PALMPC-4; Web: www.everex.com

Freestyle Associate (4MB RAM) – $269
Freestyle Manager (8MB) – $329; (16MB) – $399
Freestyle Executive (8MB) – $449 (16MB) – $499

SUMMARY: *This is the smallest and thinnest of the Palm-size PCs. The Manager and Executive come with a light-weight mobile data cradle that carries extra batteries to extend the Freestyle's battery life. The Executive's data cradle has a built-in fax/modem. Another nice feature in all models is the silent vibrating alarm that lets you know when an appointment comes due without disturbing others. The power and navigation buttons are recessed. You won't accidentally press them, but finding them without looking takes a little practice. The display is a little hard to see in poor lighting conditions. All versions of the Freestyle ship with rechargeable batteries and AC adapter.*

HARDWARE: Manager and Executive have a 66 MHz NEC VR 4111 CPU; Associate has a 54 MHz NEC VR4102 CPU; Both the Manager and Executive are available with either 8 MB or 16 MB of RAM; both have 8 MB of ROM; Associate has 4 MB RAM and 8 MB ROM. All units have a 320x240 backlit touchscreen; CompactFlash slot; serial and IrDA ports; and built-in voice record/playback capability. Weighs 5.29 oz (150g); size 4.8x3.18x0.64 inches (12.2x8.1x1.7 cm); Powered for up to 20 hours by 2 rechargeable NiMH AAA batteries; CR2032 backup battery (batteries included). Comes with connectivity cable, AC adapter, manuals and additional software. The Manager comes with a foldable MobileCradle for data sync. The Executive comes with a MobileCradle with a built-in 33.6 Kbps fax/modem.

SOFTWARE: Microsoft Windows CE 2.0 operating system, accessories and Palm-size PC "Pocket" applications; Windows CE Services 2.1 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: bFAX Express; bTASK; bMOBILE News; bTRACK, bPRINT; Quicken ExpensAble; eWallet (trial version); Calligrapher 5.1 and Calligrapher 5.1 Toolkit (trial versions).

ACCESSORIES: 16MB RAM Memory Upgrade; 8 MB RAM Memory Upgrade; Executive MobileCradle (with 33.6 Kbps Fax / Modem and AA battery pack); Standard MobileCradle; Deluxe Trifold Case; Leather Flip case; Clip case; Replacement Standard Pouch; Headphone/-Microphone Headset; Rechargeable AA NiMH Battery Pack (for Mobile Cradle); Rechargeable AAA NiMH Battery Pack; AC Adapter; Replacement Synchronization Cable (RS-232); Stylus 3 pack.

LG Electronics

CONTACT local LG dealer or LG Electronics Customer Information Center; Phone (USA): 800-243-0000; Web: www.lge.co.kr

LGE Pocket Phenom - $TBA

SUMMARY: *Not yet shipping, no information available.*

HARDWARE: SH3 processor; 320x240 touch-sensitive backlit display; CompactFlash slot; serial port, IrDA port, built-in voice record/playback capability. Powered by 2 AAA batteries, backup battery. Weight, size, and other details not yet available.

SOFTWARE: Microsoft Windows CE 2.0 operating system, accessories and Palm-size PC "Pocket" applications; Windows CE Services 2.1 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: Information not yet available.

ACCESSORIES: Information not yet available.

Palmax

CONTACT Palmax; Phone (in Taiwan): +886-2-2266007; Email: palmax@palmax. com.tw; Web: www.palmax.com.tw

Palmax PD-300 Palm-size PC — $299
(not yet shipping)

SUMMARY: *Not yet shipping, no information available.*

HARDWARE: 60 MHz SH3 processor; 2 MB RAM (expandable to 4 or 10 MB); 8MB ROM; 320x240 touch-sensitive backlit display; CompactFlash slot; serial port, IrDA port, built-in voice record/playback capability. Weighs 6.5 oz (184 g) size 4.9 x 3.2 x .8 inches (12.45 x 8.13 x 2.03 cm), powered by 2 AAA batteries and a CR1220 backup battery. Comes with connectivity cradle, AC adapter, manuals.

SOFTWARE: Microsoft Windows CE 2.0 operating system, accessories and Palm-size PC "Pocket" applications; Windows CE Services 2.1 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: Information not yet available.

ACCESSORIES: Information not yet available.

Philips

CONTACT Philips Mobile Computing Group; Phone (USA): 888-367-8356 or 408-558-2200; Fax: 408-558-2222; Web: www.mobile.philips.com

Philips Nino 301 Palm-size PC — $399.99
Philips Nino 302 Palm-size PC — $499.99

SUMMARY: *One of the nicer-looking Palm-sized PCs. The Nino comes with a built-in modem, making it larger than most, but still pocketable. The Nino 302 comes with a NiMH rechargeable battery pack, an option for the 301. Either Nino can use standard AA batteries in a pinch.*

HARDWARE: 75 MHz MIPS R3900 CPU; 4MB or 8MB RAM; 8MB ROM; 320x240 touch-sensitive backlit display with control dial; built-in low power 22.8 kbps modem; CompactFlash slot; serial port, IrDA port, built-in voice record/playback capability. Weighs 7.33 oz (227 g); size 3.41 x 5.25 x .8 inches (8.66 x 13.34 x 2.03 cm). Four quick start buttons launch the most commonly used applications. The 301 is powered by 2 AA batteries and a CR2025 backup battery and comes with NinoDock connectivity cradle, carrying case, manuals, and additional software. In addition to the above, the Nino 302 also comes with a NiMH rechargeable battery. Either model can use the battery pack or AA batteries.

SOFTWARE: Microsoft Windows CE 2.0 operating system, accessories and Palm-size PC "Pocket" applications; Windows CE Services 2.1 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: T9 word prediction capability; ART Pocket Commander; ART smARTwriter; Nino Expense Manager.

ACCESSORIES: Nino Modem Click-on (U.S./CANADA ONLY); telephone Connectivity Kit (EUROPE ONLY); Nino-to-PC Cable; Nino Dock; Travelling AC Adapter; Car Charger; Nino Rechargeable Battery Pack; SanDisk CompactFlash Card; Nino Premiere Travelling Case.

Samsung

CONTACT your local Samsung dealer or Samsung Electronics America, Phone: 201-229-4000; Fax: 201-229-4019; Web: www. sosimple.com

Samsung Palm-size PC — $TBA
(not yet shipping)

SUMMARY: *Not yet shipping, no information available.*

HARDWARE: 75MHz MIPS processor; 2MB RAM (expandable to 8 MB) and 4 MB ROM (expandable to 8 MB); 240x340 touch-sensitive backlit display; built-in 28.8 modem; CompactFlash slot; serial port; IrDA port; built-in voice record/playback capability. Weighs 3.88 oz (110 g) (plus weight of batteries); size: 3.35 x 5.12 x .78 inches (8.51 x 13 x 1.98 cm); powered by 2 AA batteries; backup battery. Comes with Connectivity cradle, AC adapter, user manuals.

SOFTWARE: Microsoft Windows CE 2.0 operating system, accessories and Palm-size PC "Pocket" applications; Windows CE Services 2.1 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: Information not yet available.

ACCESSORIES: Information not yet available.

Trogon

Contact: Trogon Computer Corporation; Phone: 562-802-8702; Fax: 562-802-2879; Web: palmpower.trogoncomputer.com/

Palm Power C2000 (4MB RAM) – $215
Palm Power C2001 (8MB) – $315

Palm Power C2002 (8MB) – $415

SUMMARY: *We haven't tested this unit yet, but the hardware appears to be identical to the Everex Freestyle series. See Freestyle summary comments.*

HARDWARE: The Palm Power C2001 and C2002 have a 66 MHz NEC VR 4111 CPU; The C2000 has a 54 MHz NEC VR4102 CPU; Both the The C2001 and C2002 are available with either 8 MB or 16 MB of RAM; both have 8 MB of ROM; C2000 has 4 MB RAM and 8 MB ROM. All units have a 320x240 backlit touchscreen; CompactFlash slot; serial and IrDA ports; and built-in voice record/playback capability. Weighs 5.29 oz (150g); size 4.8x3.18x0.64 inches (12.2x8.1x1.7 cm); Powered for up to 20 hours by 2 rechargeable NiMH AAA batteries; CR2032 backup battery (batteries included). Comes with connectivity cable, AC adapter, manuals and carrying case. The C2001 comes with a foldable MobileCradle for data sync. The C2002 comes with a MobileCradle with a built-in 33.6 kbps fax/modem.

SOFTWARE: Microsoft Windows CE 2.0 operating system, accessories and Palm-size PC "Pocket" applications; Windows CE Services 2.1 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: ART Voice Command and smARTwriter Handwriting Recognition software.

ACCESSORIES: Docking station with integrated 33.6k modem; NiMH rechargeable battery; Sync cable; Carrying Case.

Uniden

CONTACT Uniden; Phone (USA): 888-6-UNIDEN; Web: www.uniden.com

UniPRO PC100 Palm-size PC - $379

SUMMARY: *We have not tested the UniPRO yet and have no feedback.*

HARDWARE: 75 Mhz CPU; 4MB RAM (expandable to 8MB) and 8MB ROM; 240x320 touch-sensitive, 4 level grayscale screen with back lighting; 28.8kbps internal modem with RJ-11 connector; Type II CompactFlash slot; built-in voice recorder; serial port, IrDA port. Powered by 2 AA batteries.

SOFTWARE: Microsoft Windows CE 2.0 operating system, accessories and Palm-size PC "Pocket" applications; Windows CE Services 2.1 (on CD ROM).

ADDITIONAL SOFTWARE built-in or bundled on disk or CD ROM: None listed

ACCESSORIES: Protective carrying case; Docking station with a 2 meter serial cable; AC adapter.

Auto PC

Clarion

CONTACT your Clarion dealer or Clarion Sales Corporation; Phone: 310-327-1999; Fax: 310-327-1999; Web: www.auto pc.-com or www.clarionmultimedia.com

Disc Player

Clarion Auto PC — $1,299
(not yet shipping)

SUMMARY: *Shipped in limited quantity in early 1999. IrDA port to transfer data between Auto PC and other PC Companions. Voice command capability allows hands-free use for driver. Fits into the standard slot used for auto-stereos and tape players. Comes with AM/M stereo tuner and CD/CD-ROM player.*

HARDWARE: 60 MHz Hitachi SH3 processor; 8 MB RAM; 8 MB ROM; 8-color, 256 x 64 pixel active magrix LCDdisplay with detachable face plate; microphone; CompactFlash slot; IrDA infrared port; serial port; 1-DIN form factor fits in standard dashboard slot; AM/FM stereo tuner; 35 watt x 4 channel; 4 pre-amp outputs; CD/CD-ROM player; Digital Sound Processor (DSP); Universal Serial Bus (USB).

SOFTWARE: Windows CE 2.0 operating system with voice-activiate control; voice memo, address book, highway navigation, vehicle mileage log, text-to-speech messages.

ACCESSORIES; CompactFlash memory card; InfoGation AutoPC file manager; Clarion GPS receiver; map data for Global Positioning System; Clarion USB 6 CD/CD-ROM auto changer; UNGOUSBvehicle security system; cellular telephone/modem USB interface, FM side-band wireless receiver &services, ASSIST services, vehicle diagnostic/monitoring interface.

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HP Jornada 420

Color-Screen Palm-size PC

By Rich Hall

This is the quickest "quick look" I've ever done. HP sent me a pre-production version of their new color-screen Palm-size PC the day before we went to the printer. I had about three hours to play with it, take a few screen shots, and write up a "quick look" review. You'll find a factual description of the HP 420 on page 7 of the NewsBYTES section. Below you'll find my impressions of the HP Jornada 420.

Microsoft Windows CE
Calendar
Channels
Contacts
HP Settings
Inbox
Note Taker
Programs
Settings
Find...
Help
Start
6:53a
HEWLETT PACKARD
Jornada

Good screen and other hardware

The Jornada 420 is about the size and weight of the other Palm-size PCs we've looked at – perhaps a little thicker and heavier. It comes with a handy clear plastic flip-cover that protects the screen while letting you view it. You cannot use the touch-screen with cover in place, but it folds back easily.

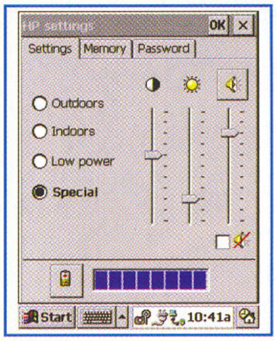
All of the hardware navigation buttons are on the left side of the HP 420. It's relatively easy to hold it in your left hand and navigate with your left thumb. The HP has an extra button that pops up the Start menu. The four Application Launch buttons are icons on the bottom of the touchscreen. Like other Palm-size PCs, they are programmed to launch Contacts, Calendar, and Tasks. The fourth button launches OmniSolve, a multi-function calculator unique to the Jornada. As with any Palm-size PC, you can reprogram these four buttons to launch any application you desire.

In addition to OmniSolve, the HP Jornada 420 comes with EzExplorer, a built-in file explorer. You can view the file structure on your HP 420, move and delete files, or tap on an application to launch it. The HP 420 also comes with the bTask utility that lets you switch to open applications, and close them, from a taskbar icon. All of these are nice additions to the standard Palm-size PC applications.

Finally, the HP Jornada 420 comes with a custom "HP Settings" application that lets you customize screen brightness to four different levels (Indoors, Outdoors, Low power, and Special). You can also use HP Settings to set a password and review the status of your internal memory.

I loved the color display, especially after I found the HP Settings application and customized the brightness and contrast to my own tastes. The 420 has a decent speaker that played back the voice memos I made loud and clear. Everything else seemed to work fine, and that's saying something with a pre-production unit.

The HP Jornada 420 will be priced at $519. For more information, visit HP's Jornada Web site: www.hp.com/jornada/. ■


HP settings
OK
Settings
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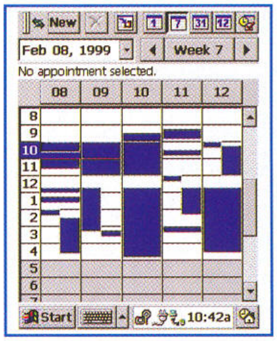
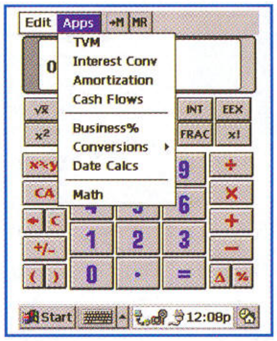
Password
○ Outdoors
○ Indoors
○ Low power
● Special
Start
10:41a

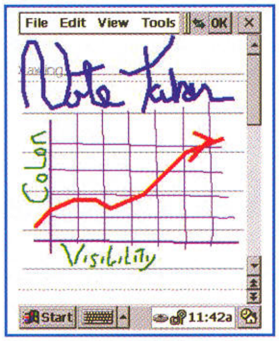
The HP settings utility lets you customize screen brightness to four different levels (Indoors, Outdoors, Low power, and Special). You can also view memory information, set a password, and check battery level (blue bar at the bottom of the screen).


New
Feb 08, 1999
Week 7
No appointment selected.
08
09
10
11
12
8
9
10
11
12
1
2
3
4
5
6
Start
10:42a

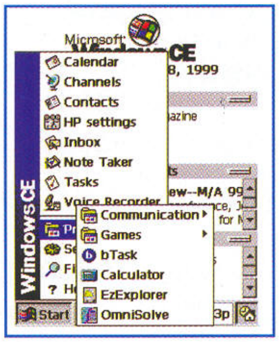
The Calendar application lets you view your appointments in daily, weekly (shown here), and monthly views.


Edit
Apps
TVM
Interest Conv
Amortization
Cash Flows
Business%
Conversions
Date Calcs
Math
INT
EEX
FRAC
x!
CA
1
2
3
0
9
6
Start
12:08p

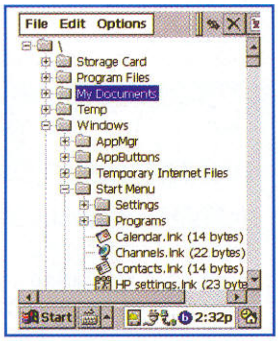
OmniSolve is built into the HP Jornada 420, adding a multi-function business calculator.


File
Edit
View
Tools
OK
Note Taker
Color
Visibility
Start
11:42a

Note Taker lets you enter handwritten or text notes, sketch maps or charts, and more. You can now select different colors for the notes and sketches.


Microsoft
Calendar
Channels
Contacts
HP settings
Inbox
Note Taker
Tasks
Voice Recorder
Communication
Games
bTask
Calculator
EzExplorer
OmniSolve
Windows CE
Start

The HP Jornada 420's main Start menu lets you locate and launch applications and utilities built into, or installed on the Palm-size PC.


File
Edit
Options
Storage Card
Program Files
My Documents
Temp
Windows
AppMgr
AppButtons
Temporary Internet Files
Start Menu
Settings
Programs
Calendar.lnk (14 bytes)
Channels.lnk (22 bytes)
Contacts.lnk (14 bytes)
HP settings.lnk (23 byte
Start
2:32p

The Jornada's EzExplorer lets you view the file structure on your 420, move and delete files, or tap on an application to launch it.

Advertiser Index

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BSQUARE Corporation	888-820-4500 or 425-519-5900; Web: www.bsquare.com/hpcm	53
CASIO Soft	408-441-2000; Fax: 408-441-4175; Web: www.casio.com	BC
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Westtek	425-861-8271; Fax: 425-861-7926; E-mail: info@westtek.com; Web: www.westtek.com	55
WPI Husky Technology	727-530-4141; Fax: 727-536-9906; E-mail: marketing@huskyinc.com; Web: www.huskyinc.com	3

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Please note: The Staff of Handheld PC Magazine *cannot provide technical support.*

Are pocket-sized H/PCs needed?

Some researchers have relegated the pocket-sized handheld PCs (e.g., the HP 660 or Compaq C-series) to niche markets because "you can't touch type on them," and "they're a little to bulky." These same experts predict a very healthy growth of Palm-size and notebook-sized H/PCs over the next five years. I like the middle-sized H/PC. It fits in my pocket so it's always there when I need it, and I can type reasonably well on it. Am I alone in thinking this?

How important is a color-screen Palm-size PC?

Let's assume a decent battery life. Color-screen Palm-size PCs will be flasher, and the screen will be easier to read. But Palm-size PCs are designed primarily to access and synchronize data; why does color matter? Are there other advantages about using color in the Palm-size PC form factor.

What should we call these things?

Microsoft felt "Palmtop" and "PDA" did not have positive connotations in the marketplace. Therefore, it introduced "Handheld PC" or "H/PC" (not "HPC," Hewlett-Packard didn't like that.) Then came the "Palm-size PC" or "Ps/PC" (the PalmPilot folks got "PalmPC" vetoed) and the "Auto PC." Collectively, Microsoft wants all these Windows CE devices to be known as "PC companions." To muddy the water a little more the new notebook-sized unit is called the "Handheld PC Pro." Is any H/PC, no matter the size, that uses the latest Windows CE operating system an "H/PC Pro"? I don't know. When these devices become stand-alone, will they still be "PC companions" or just "PC's"? And when should we capitalize "Handheld," "Companion," "Palm-size" or "Pro"? What an alphabet soup mess.

Why does the computer press keep saying: "There isn't much CE software"?

By now you should have received our *1999 Windows CE Buyer's Guide* or visited our WWW.HPCMAG.COM Web site. Pretty impressive group of products, yes? Next time someone says there isn't Windows CE software, show them the listings of over 700 Windows CE products and services. That is not to say there isn't room to grow. Where do you think the biggest holes are? What products would you like to see?

What's happening with WWW.HPCMAG.COM?

We hope you'll use our Web site as a portal into the world of Windows CE. We have close to a 1000 links to Windows CE products and services. Our site is the most complete resource of products for Windows CE. We're working on a complete re-design and have a new, full-time Webmaster. By summer we'll add daily news, quick tips, new products, and links to hot Windows CE Web sites. Keep coming back. I don't think you will be disappointed. ■

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An Unfolding Drama

Hal Goldstein

Life was a lot simpler way back in 1996. Windows CE had just been released and there was only one type and size of PC Companion - the Handheld PC. In the last three years we've seen two major upgrades to the operating system, and a host of new PC Companions. Windows CE got smaller in the form of the Palm-size PC, in part to challenge the popularity of the PalmPilot and other pen-entry PDAs. And quite recently, Windows CE got larger and more powerful in the form of the new Handheld PC Professional Edition, in part to challenge the popularity of notebook computers.

We're in the middle of an unfolding drama. Microsoft and the PC Companion manufacturers battle for their share of the expanding handheld and notebook computing market, and we have ring-side seats. Who will be the big players? What new products will come along? Right now, we have more questions than answers. I've listed some of them below. Did I miss any? Do you have some answers? E-mail me a hal@thaddeus.com and we'll share some of your responses.

Are there true Windows CE evangelists? Does it matter?

The PalmPilot, the Apple Newton, the Hewlett-Packard 200LX, the Psion all developed devoted, almost fanatic followers. The enthusiasm translated into sales and after-market products, but only the PalmPilot has really made it as a mainstream product.

Microsoft is very good at getting mainstream acceptance for its products. They do listen to user feedback to improve their software, but they spend more time developing the basics and then turning it over to leading manufacturers. To these partners Microsoft imparted its vision of "information at your fingertips," spoke of the virtues of a familiar-looking industry-standard operating system, and provided market research that promised a huge market for handhelds. Manufacturers in hand, Microsoft then went to its Windows developers encouraging them to write Windows CE applications.

Rather than waiting for a group of enthusiasts to evolve, Microsoft's strategy seems to be: If enough companies build Windows CE handhelds and applications, and if Microsoft listens to user feedback and improves its OS and applications, customers will come in droves. Is this the right strategy? Do you tell everyone you can about your CE device, or is it just a handy tool? Just how important is your individual enthusiasm to long range acceptance of Windows CE devices?

Do you buy Windows CE accessories and applications?

One of the things that drives the acceptance of a platform is the support independent vendors give it. Accessories and software add flexibility and functionality to a platform and if our 1999 Buyer's Guide is any indication, Windows CE doesn't seem to be doing too badly. Is our perception true? Do you enhance your PC Companion with accessories and applications? Which ones do you use? Which ones are needed?

Are developers wary of Microsoft?

Microsoft and OEMs do seem to realize that third-party developers and publications such as ours play an essential role in driving this market and creating solutions for consumers and corporate users. At the same time, some third-party developers express a lot of frustration about working with Microsoft. Frankly, we've had similar challenges developing a relationship with Microsoft even though our publication focuses entirely on Windows CE and is a great source of information.

I believe that now is the time for Microsoft to make itself more helpful and accessible to companies willing to invest their resources in Windows CE application development. Handheld PC Magazine will be happy to serve as an intermediary between the developer community and Microsoft, and between users and Microsoft. Is this a good idea? Any suggestions? Anyone at Microsoft listening?

Can Microsoft divide the world into NT and CE? What does that mean for CE?

Microsoft apparently wants to divide the electronic universe into NT (big computers) and CE (small computers and consumer electronics), eliminating Windows 95/98. What kind of CE devices will we see in the future? Phones, TV's, wireless devices, Internet/e-mail machines are obvious candidates. Will "PC companions" evolve into stand-alone notebooks, handhelds, and desktops?

Will the H/PC Pro be a notebook killer or a niche product?

How appealing will the H/PC Pro be to the notebook computer users, especially corporate users? I think it's a real winner, and will become more so as storage solutions come down in price. Our publications have long been proponents of the "RAM/ROM" model of portable computing (data in RAM, software in ROM). Pioneering RAM/ROM computers included the Radio Shack 100, the HP Portable Plus, the original NEC Ultralite, the Poqet, the HP 95/100/200LX and the HP OmniBook 300. None of these devices caught on in a big way despite long battery life, instant on, ease-of-use, and small footprint. However, RAM/ROM machines are a practical and powerful solution. Given the fact that Microsoft and major manufacturers are now behind it, it may be an idea whose time has finally come.

Is the H/PC Pro for novices?

I think an H/PC Pro would be a great first machine. What do you think?

Continued page 63

Hal Goldstein is Publisher and Executive Editor of Handheld PC Magazine and president of Thaddeus Computing. He has published, edited, and written for five magazines on portable computing since founding Thaddeus Computing in 1985. You can e-mail Hal at hal@thaddeus.com.

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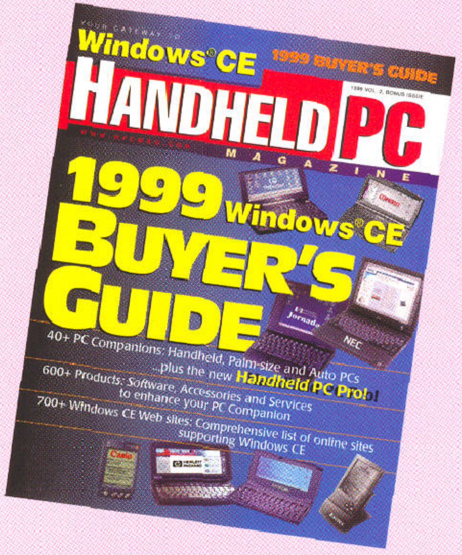
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